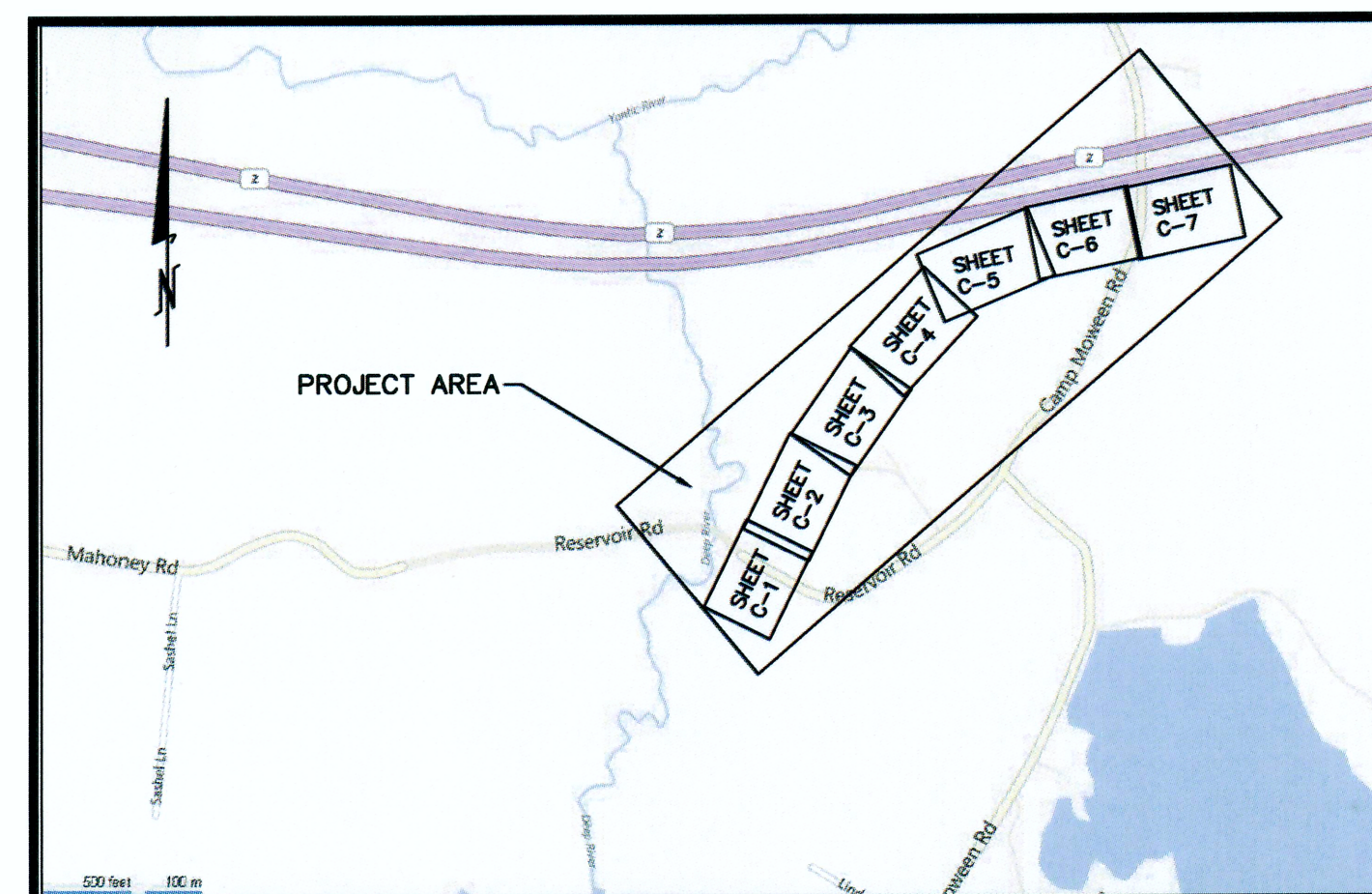


NORWICH PUBLIC UTILITIES

DEEP RIVER WATER TREATMENT PLANT TRANSMISSION MAIN REHABILITATION

DWSRF 2010-1040011C

BID NO. 7435



TRANSMISSION MAIN LOCUS MAP

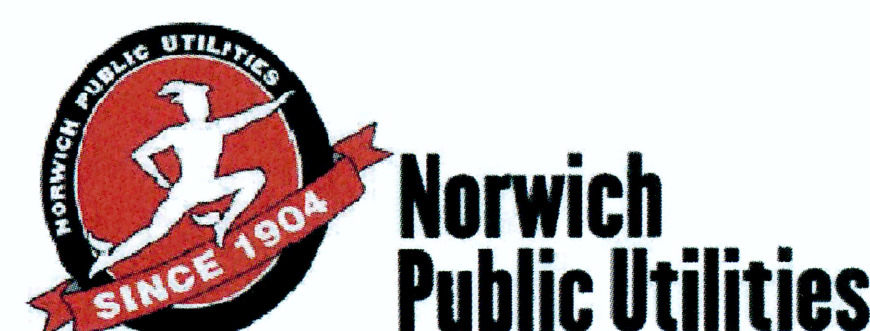
NOT TO SCALE



TATA & HOWARD

INDEX TO DRAWINGS

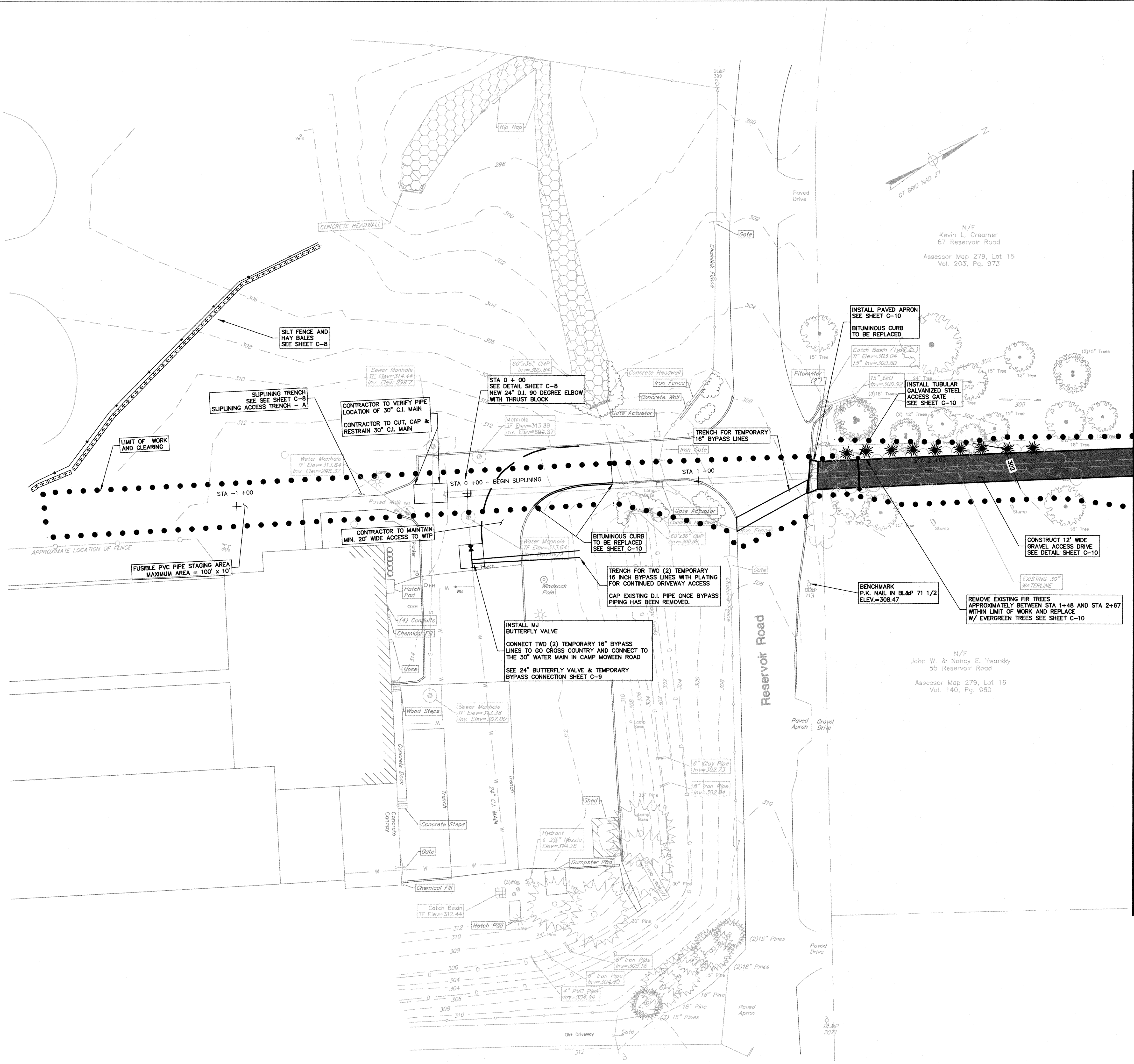
- C-1 - PROPOSED PVC SLIP LINING DEEP RIVER WTP & RESERVOIR ROAD
- C-2 - PROPOSED SLIP LINING AND ACCESS DRIVE: STA 2+88 TO STA 8+99
- C-3 - PROPOSED SLIP LINING AND ACCESS DRIVE: STA 8+99 TO STA 14+95
- C-4 - PROPOSED SLIP LINING AND ACCESS DRIVE: STA 14+95 TO 20+57
- C-5 - PROPOSED SLIP LINING AND ACCESS DRIVE: STA 20+57 TO 27+01
- C-6 - PROPOSED SLIP LINING AND ACCESS DRIVE: STA 27+01 TO 32+81
- C-7 - PROPOSED PVC SLIP LINING CAMP MOWEEN ROAD
- C-8 - SITE DETAILS (I)
- C-9 - SITE DETAILS (II)
- C-10 - SITE DETAILS (III)



**Norwich
Public Utilities**

MARCH 2014

Meriden, CT



MATCH LINE TO SHEET C-2

GENERAL

1. ALL UNDERGROUND UTILITIES MUST BE INSTALLED IN ACCORDANCE WITH NPU MATERIAL SPECIFICATIONS AND STANDARDS.
2. NPU PERSONNEL OR AN AUTHORIZED REPRESENTATIVE MUST INSPECT AND APPROVE ALL UTILITY INSTALLATIONS PRIOR TO BACKFILLING.
3. THE CONTRACTOR SHALL FURNISH A SURETY BOND PRIOR TO THE START OF CONSTRUCTION TO COVER ESTIMATED CONSTRUCTION AND CONTINGENCY COSTS TO ENSURE COMPLETION AND WARRANTY OF THE SEWER AND WATER UTILITY INSTALLATIONS IN ACCORDANCE WITH NPU STANDARDS. THIS BOND WILL ALSO COVER ACCEPTABLE COMPLETION OF AS-BUILT DRAWINGS.
4. THE CONTRACTOR SHALL PROVIDE A WARRANTY FOR THE WATER MAIN AND SERVICE INSTALLATIONS FOR A PERIOD OF ONE YEAR FOLLOWING NPU ACCEPTANCE OF OWNERSHIP. THE SURETY BOND NOTED ABOVE MUST CARRY OVER FOR THIS ONE YEAR WARRANTY PERIOD.
5. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS AND LICENSES REQUIRED FOR PERFORMING THE UTILITY INSTALLATIONS.
6. ANY RELOCATION OF EXISTING UTILITIES SHALL BE COORDINATED WITH NORWICH PUBLIC UTILITIES.
7. INTERCONNECTION WITH EXISTING UTILITY INFRASTRUCTURE MUST BE COORDINATED THROUGH NORWICH PUBLIC UTILITIES.
8. BYPASS LINES INSTALLED AFTER THE ACCESS ROAD HAS BEEN COMPLETED AND SHALL BE BURIED BELOW GRADE AT ROAD CROSSINGS TO MAINTAIN TRAFFIC.

WATER

1. A PHYSICAL GAP MUST EXIST BETWEEN ANY NEW WATER INFRASTRUCTURE AND EXISTING INFRASTRUCTURE UNTIL THE NEW INFRASTRUCTURE PASSES ALL PRESSURE AND BACTERIOLOGICAL TESTING AND NPU PROVIDES PERMISSION IN WRITING FOR INTERCONNECTION.
2. A 10-FOOT SEPARATION IS REQUIRED BETWEEN ALL WATER AND SEWER MAINS AND SERVICES.
3. WATER MAIN DETAILS - CORPORATIONS MUST BE TAPERED THREAD (CC) BY COMPRESSION. HYDRANTS SHALL BE NORWICH THREAD, MUELLER SUPER CENTURION 250 OR CLOW MEDALLION STYLE F2545 AND SHALL OPEN RIGHT (SEE NPU STANDARDS). GATE VALVES SHALL OPEN RIGHT.
4. TWO TEMPORARY 16 INCH WATER BYPASS MAINS: DESIGN, LAYOUT AND OPERATION BY CONTRACTOR PER SPECIFICATION SECTIONS 01100 AND 02667.

LEGEND

EXISTING	DESCRIPTION	PROPOSED
W	WATER MAIN	
G	GATE VALVE	
B	BUTTERFLY VALVE	
W	WELL	
S	SEWER MANHOLE	
C	CATCH BASIN	
D	DRAIN LINE	
R	RIP RAP	
E	ELEC. LINE	
U	UTILITY POLE	
L	LIGHT	
T	TREE LINE	
CH	CHAIN LINK FENCE	
W	WETLANDS	
WF	WETLAND FLAG	
B	BODY OF WATER	
C	CONTOUR	
L	LIMIT OF WORK	
H	HAYBALES	
S	SILT FENCE	
R	RIP RAP	
C	CRUSHED STONE	
G	GRAVEL DRIVE	
G	GRASS DRIVE	

NORWICH PUBLIC UTILITIES
NORWICH, CONNECTICUT

DEEP RIVER WATER TREATMENT PLANT
TRANSMISSION MAIN REHABILITATION

PROPOSED PVC SLIP
LINING
DEEP RIVER WTP &
RESERVOIR ROAD

3	5/11/14	FINAL CONTRACT PLANS
2	2/25/14	DPH & LEBANON REVIEW
1	8/9/13	95% Drawings

Green Site Design
— LLC —
117 Main Street
(860) 866-1100

117 Main Street
(860) 866-1100

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
No. 11774
TATA & HOWARD

TATA & HOWARD

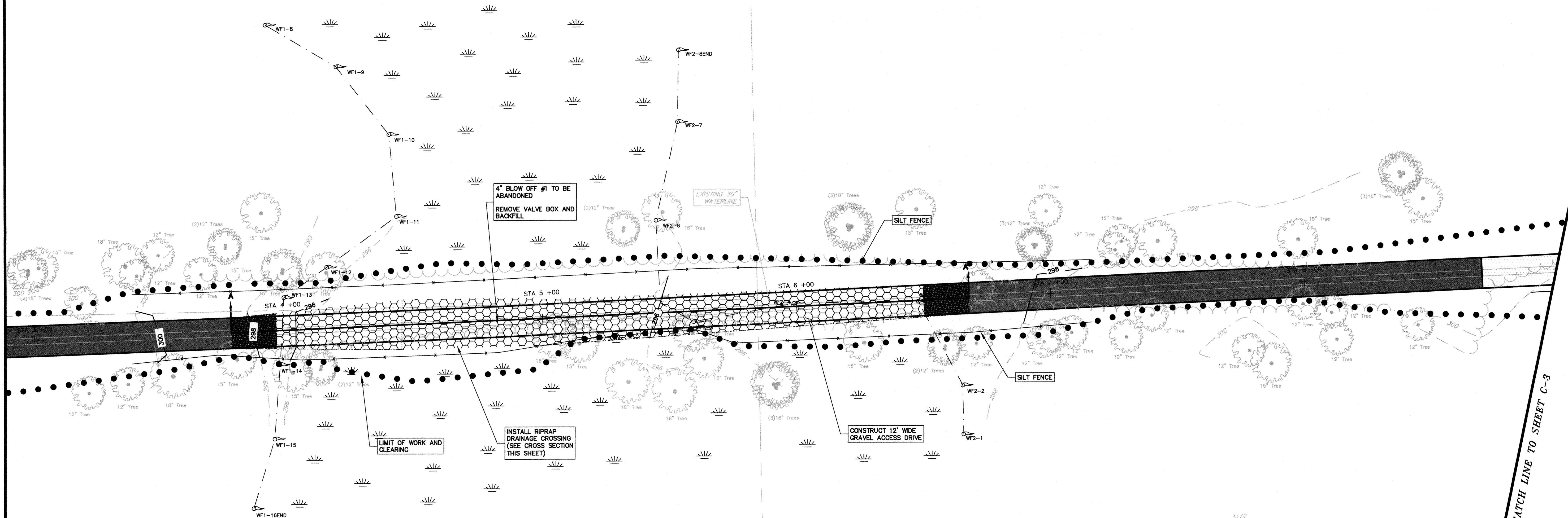
T&H NO.: 2652
DATE: MARCH 2014
SCALE: 1 INCH = 20 FEET
SHEET: 1 OF 10
C - 1

Drawn By: AMW
Designed By: BFM
Checked By: SKR
Approved By: SKR

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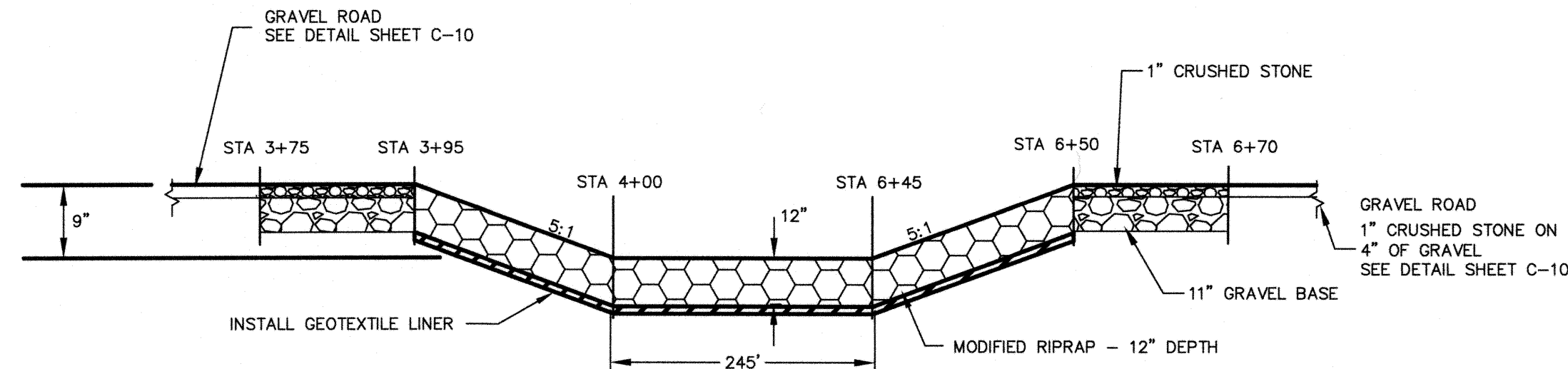
N/F
Kevin L. Creamer
67 Reservoir Road
Assessor Map 279, Lot 15
Vol. 203, Pg. 973

MATCH LINE TO SHEET C-1



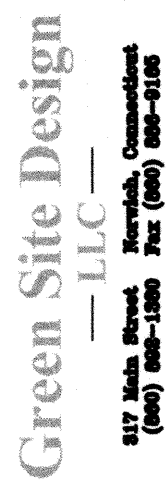
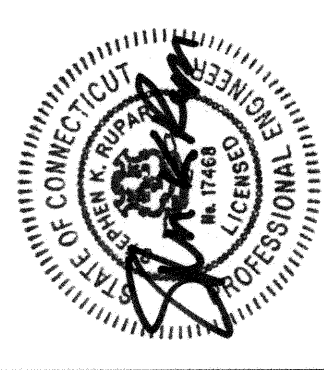
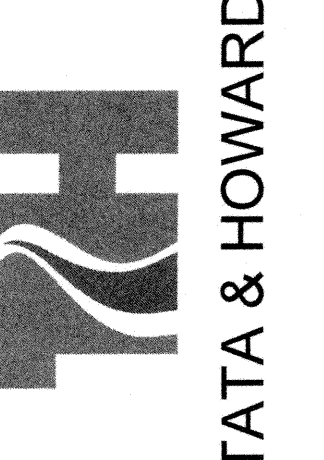
N/F
John W. & Nancy E. Ywarsky
55 Reservoir Road
Assessor Map 279, Lot 16
Vol. 140, Pg. 960

N/F
David W. Wilcox
15 Reservoir Road
Assessor Map 279, Lot 20
Vol. 141, Pg. 771

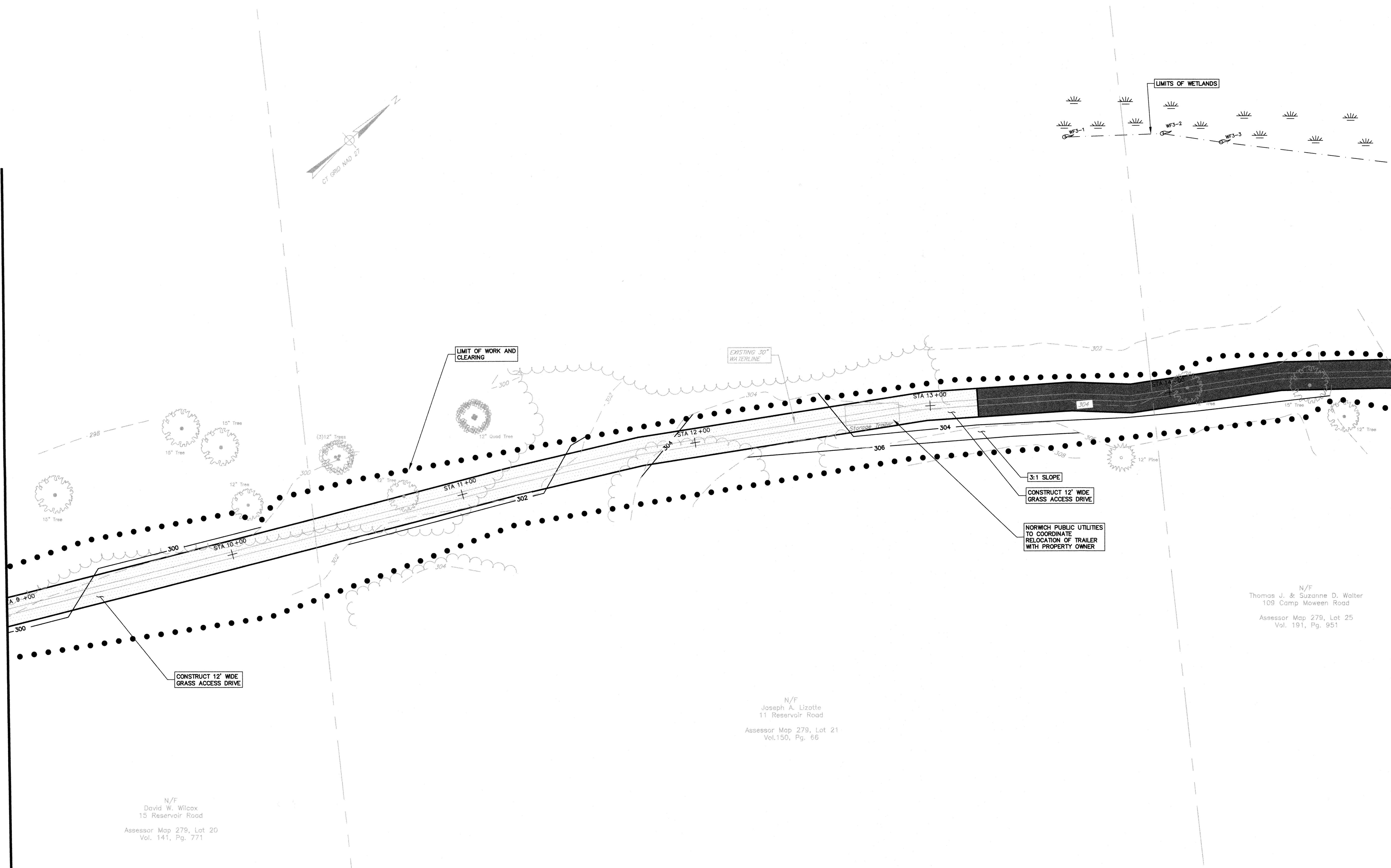


RIPRAP CROSSING & CROSS SECTION A-A
NOT TO SCALE

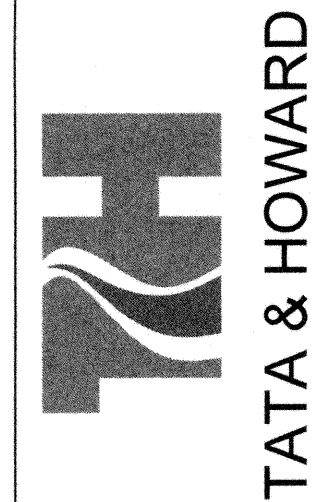
MATCH LINE TO SHEET C-3

NORWICH PUBLIC UTILITIES NORWICH, CONNECTICUT		DEEP RIVER WATER TREATMENT PLANT TRANSMISSION MAIN REHABILITATION		Designed By: AWW Checked By: PBH Approved By: SKR
PROPOSED SLIP LINING AND ACCESS DRIVE STA 2+88 TO STA 8+99		THIS DOCUMENT IS THE PROPERTY OF TATA & HOWARD, INC. AND ITS CLIENT. REPRODUCTION OR ADAPTATION WITHOUT WRITTEN CONSENT IS PROHIBITED.		
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2	2/5/14	DPI & LEBANON REVIEW		
1	8/9/13	9355 Drawings		
Rev.	Date	Description		
				
				
				
T&H NO.: 2652 DATE: MARCH 2014 SCALE: 1 INCH = 20 FEET SHEET: 2 OF 10 C - 2				

MATCH LINE TO SHEET C-2



MATCH LINE TO SHEET C-4



T&H NO.: 2652
DATE: MARCH 2014
SCALE: 1 INCH = 20 FEET
SHEET: 3 OF 10

C - 3



Green Site Design
— LLC —
112 Main Street, Norwich, Connecticut
(860) 866-1300 Fax (860) 866-8100

Rev.	Date	Description
3	5/11/14	FINAL CONTRACT PLANS
2	2/5/14	DPH & LEBANON REVIEW
1	8/9/13	95% Drawings

PROPOSED SLIP LINING
AND
ACCESS DRIVE
STA 8+99 TO STA 14+95

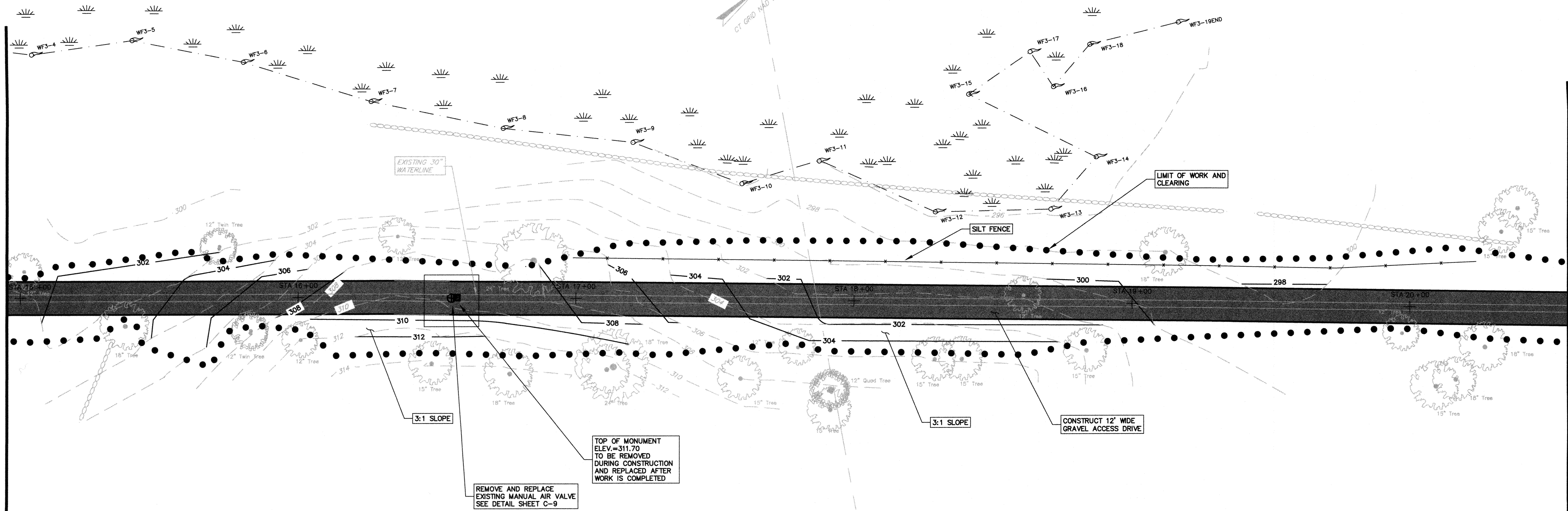
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NORWICH PUBLIC UTILITIES
NORWICH, CONNECTICUT

DEEP RIVER WATER TREATMENT PLANT
TRANSMISSION MAIN REHABILITATION

Drawn By: AMW
Designed By: BFM
Checked By: PBH
Approved By: SKR

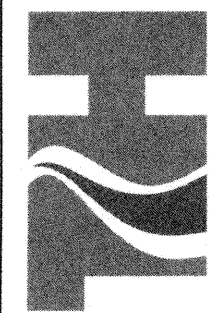
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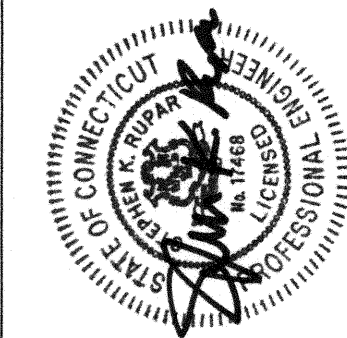
N/F
Thomas J. & Suzanne D. Walter
109 Camp Moween Road
Assessor Map 279, Lot 25
Vol. 191, Pg. 951

N/F
Thomas Carr and Sandra Lindstrom
107 Camp Moween Road
Assessor Map 279, Lot 26
Vol. 175, Pg. 191

MATCH LINE TO SHEET C-5



T&H
TATA & HOWARD



Green Site Design
— LLC —
117 Main Street
Norwich, Connecticut
(860) 886-1888 Fax (860) 886-1165

Rev.	Date	Description
3	5/11/14	FINAL CONTRACT PLANS
2	2/5/14	DPH & LEBANON REVIEW
1	8/9/13	95% Drawings

PROPOSED SLIP LINING
AND
ACCESS DRIVE
STA 14+95 TO STA 20+57

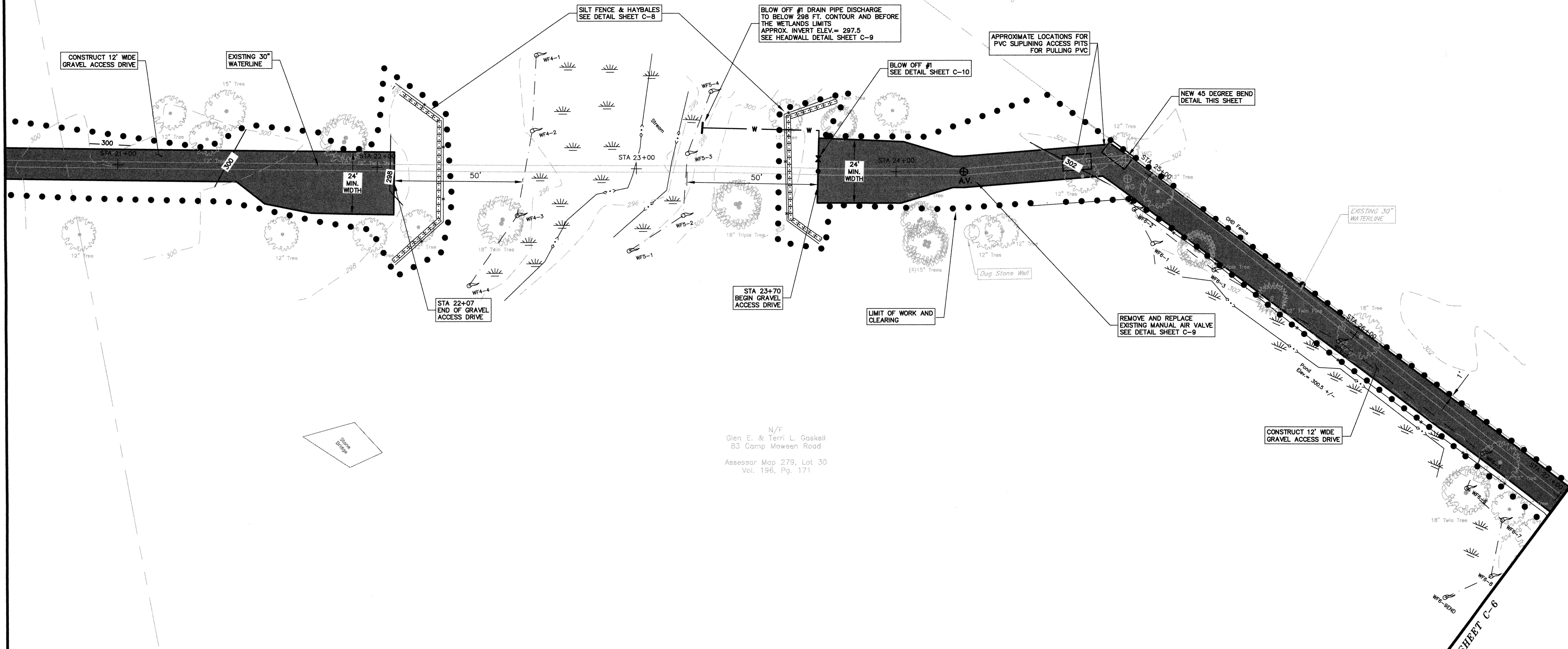
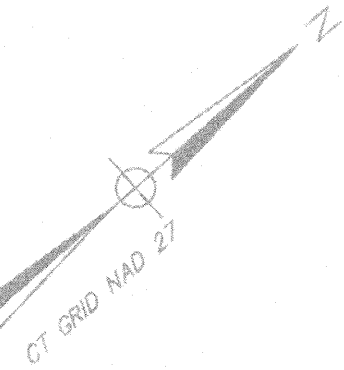
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NORWICH PUBLIC UTILITIES
NORWICH, CONNECTICUT
DEEP RIVER WATER TREATMENT PLANT
TRANSMISSION MAIN REHABILITATION

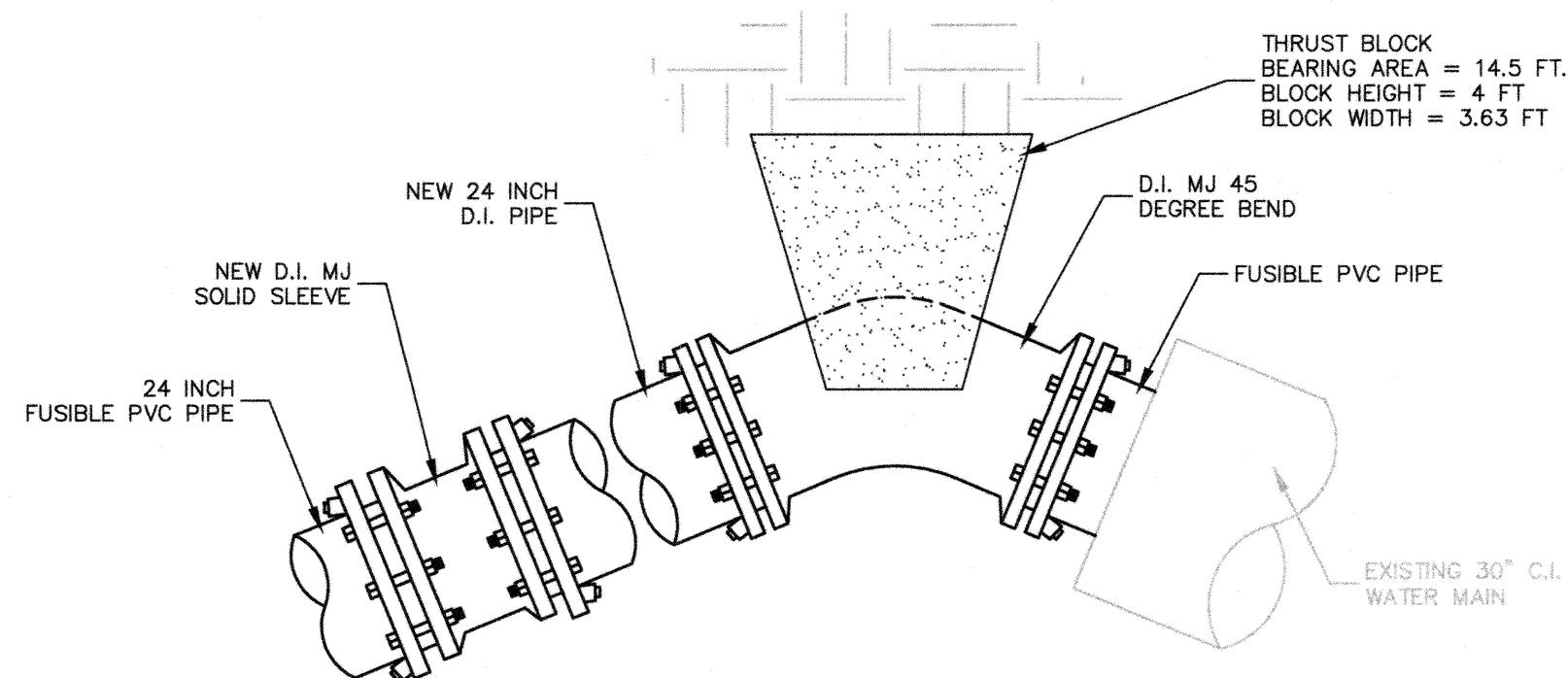
T&H NO.: 2652
DATE: MARCH 2014
SCALE: 1 INCH = 20 FEET
SHEET: 4 OF 10

MATCH LINE TO SHEET C-4

ROUTE 2 - LIMITED ACCESS HIGHWAY
VETERANS OF FOREIGN WARS MEMORIAL HIGHWAY



N/F
Glen E. & Terri L. Gaskell
83 Camp Moween Road
Assessor Map 279, Lot 30
Vol. 196, Pg. 171



NEW 45 DEGREE BEND STA 24+90
SCALE: NONE

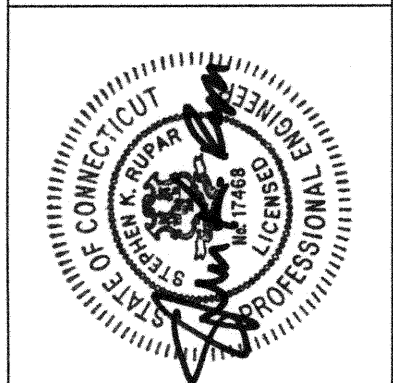
MATCH LINE TO SHEET C-6

NORWICH PUBLIC UTILITIES
NORWICH, CONNECTICUT
DEEP RIVER WATER TREATMENT PLANT
TRANSMISSION MAIN REHABILITATION

PROPOSED SLIP LINING
AND
ACCESS DRIVE
STA 20+57 TO STA 27+01

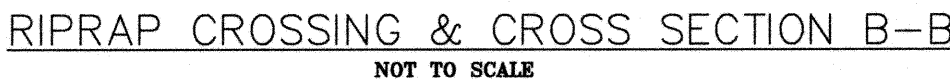
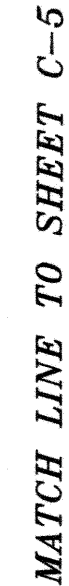
Rev.	Date	Description
3	5/11/14	FINAL CONTRACT PLANS
2	2/25/14	DPH & LEBANON REVIEW
1	8/9/13	95% Drawings

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117 Main Street
Norwich, Connecticut
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DATE: MARCH 2014
SCALE: 1 INCH = 20 FEET
SHEET: 5 OF 10




MATCH LINE TO SHEET C-7

PROPOSED SLIP LINING
AND
NORWICH PUBLIC UTILITIES
NORWICH, CONNECTICUT

ACCESS DRIVE STA 27+01 TO STA 32+81	DEEP RIVER WATER TREATMENT PLANT TRANSMISSION MAIN REHABILITATION				
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Drawn By: AJMW	Designed By: BRM	Checked By: RBH	Approved By: SKR		

	3	3/11/14	FINAL CONTRACT PLANS	
	2	2/5/14	DPH & LEBANON REVIEW	
	1	8/9/13	95% Drawings	
	Rev.	Date	Description	

Green Site Design
— LLC —
317 Main Street
Norwalk, Connecticut
(900) 808-1360 Fax (900) 808-8183



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DATE:	MARCH 2014
SCALE:	1 INCH = 20 FEET
SHEET:	6 OF 10

C - 6

289


MATCH LINE TO SHEET C-6



CEMENT CONCRETE
THRUST BLOCK
AREA = 14.4 SQ.FT.
HEIGHT = 4.0 FT.
WIDTH = 3.6 FT.

CEMENT CONCRETE
THRUST BLOCK
AREA = 14.4 SQ.FT.
HEIGHT = 4.0 FT.
WIDTH = 3.6 FT.

Diagram illustrating a restrained MJ plug with a 2 inch tap. The diagram shows a cross-section of a pipe with a restrained MJ plug installed. A 2 inch tap with a 2 inch curb stop is shown connected to the plug. The plug is labeled "RESTRAINED MJ PLUG WITH 2" TAP". The tap is labeled "2" TAP WITH 2" CURB STOP". The plug is shown resting on a "BRICK OR FLAT STONE".



TATA & HOWARD

T&H NO.:	2652
DATE:	MARCH 2014
SCALE:	AS NOTED
SHEET:	7 OF 10

C - 7

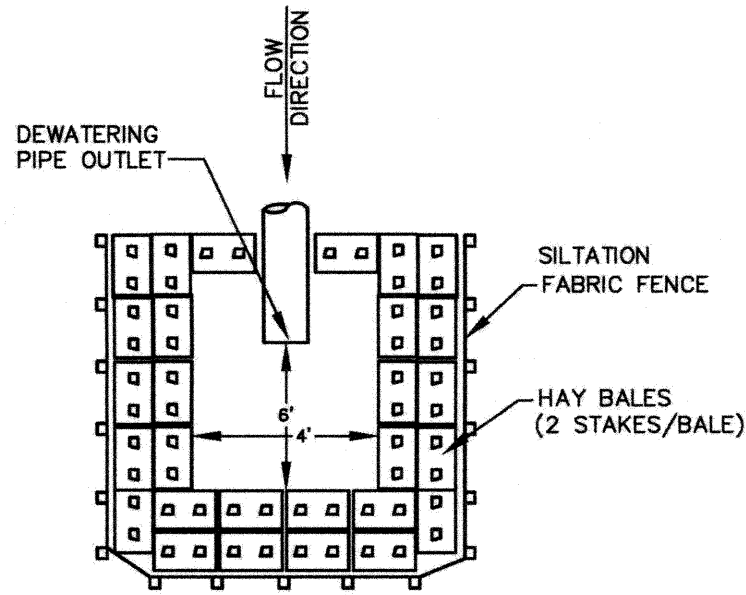
NORWICH PUBLIC UTILITIES NORWICH, CONNECTICUT	DEEP RIVER WATER TREATMENT PLANT TRANSMISSION MAIN REHABILITATION	
	Drawn By: AMW	BPR/ Designed By: PBH
		Checked By: PBH Approved By: SKR

PROPOSED PVC SLIP
LINING
CAMP MOWEEN ROAD

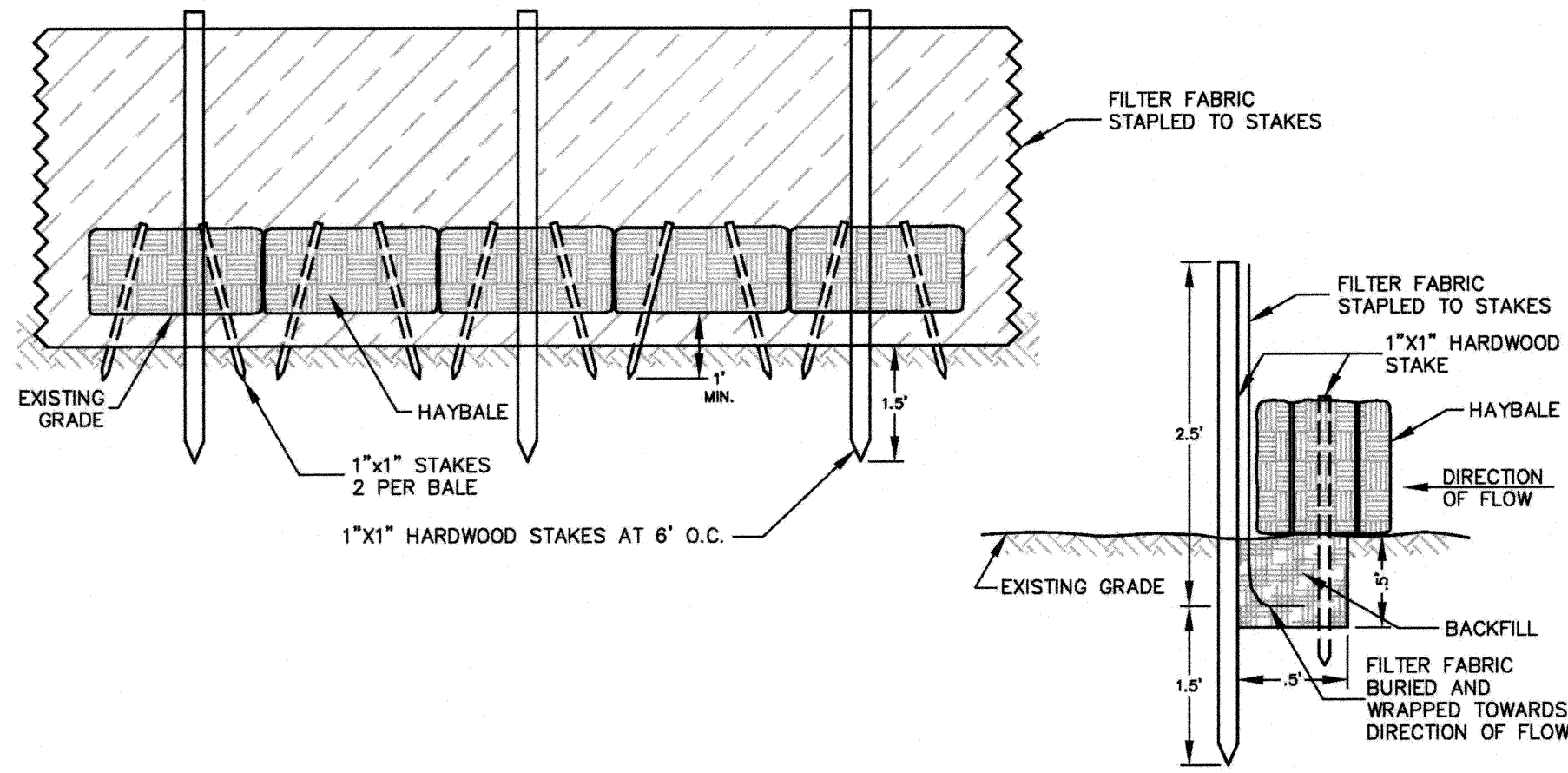
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2	2/5/14		DPH & LEBANON REVIEW	
1	8/9/13		95% Drawings	
Rev.	Date		Description	

Green Site Design
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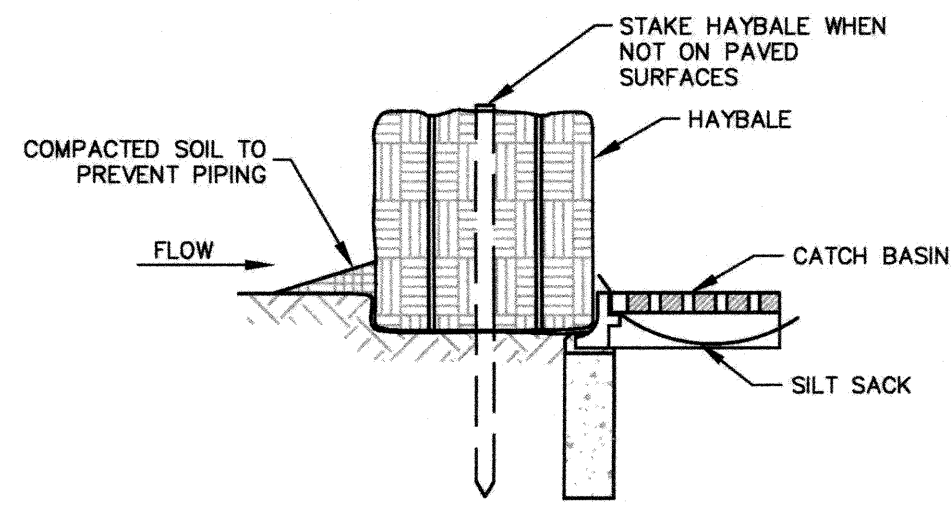
SEDIMENTATION DISCHARGE CONTROL
SCALE: NONE



SILT FENCE/HAY BALE EROSION CONTROL
SCALE: NONE



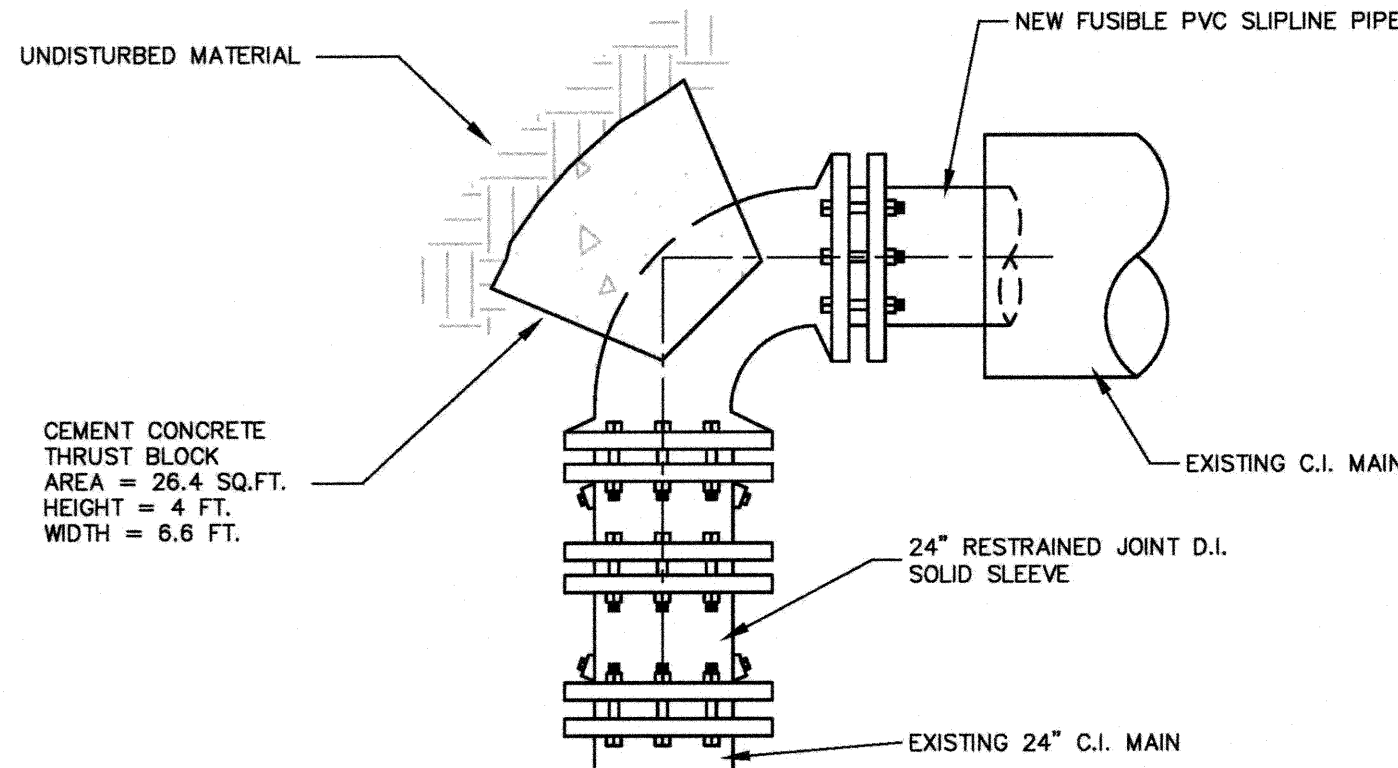
CATCH BASIN SILTATION BARRIER
SCALE: NONE



NOTE:

- HAYBALES SHALL SURROUND PERIMETER OF C.B. AND SHALL BE ABUTTED TIGHTLY AGAINST ADJACENT BALE

24" D.I. RESTRAINED MJ 90 DEGREE ELBOW STA 0 +00
SCALE: NONE



CIVIL CONSTRUCTION NOTES

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS.
- GROUND LINE AS SHOWN ON THESE PLANS IS BASED ON FIELD SURVEY.
- CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- INFORMATION SHOWN ON THE DRAWINGS RELATING TO MATERIALS, CONDITIONS, AND/OR LOCATIONS OF EXISTING STRUCTURES AND UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING FIELD SURVEY, UTILITY COMPANY AND TOWN RECORD MAPS AND DRAWINGS, AND IS NOT GUARANTEED ACCURATE OR COMPLETE.
- THE CONTRACTOR SHALL EXECUTE TEST PITS AS NEEDED OR AS DIRECTED BY THE OWNER TO VERIFY EXISTING UTILITY INFORMATION AND LOCATIONS.
- PASSAGE OF TRAFFIC ON ROADWAYS: ON-SITE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PERFORM HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK, ALL DISTURBED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC AND TRAFFIC CONTROL.
- ALL PROPOSED WORK MAY BE VARIED IN THE FIELD BY THE OWNER TO MATCH EXISTING CONDITIONS.
- THE CONTRACTOR SHALL CONFINED HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK, ALL DISTURBED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.
- ALL STREET SIGNS, MAILBOXES, PLANTINGS, ORNAMENTAL OBJECTS, LIGHTS, LANDSCAPE, LANDSCAPE SHRUBBERY, ETC., SHALL BE PROTECTED FROM DAMAGE AND SHALL BE REPLACED IN THE SAME OR BETTER CONDITION BY THE CONTRACTOR IF DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE RESETTING TO GRADE ALL FRAMES, GRATES, COVERS, VALVE BOXES, ACCESS COVERS, AND ALL OTHER ITEMS WHICH NORMALLY MUST HAVE A FIXED RELATION TO THE FINISHED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND PERMANENT SUPPORT OF ALL EXISTING UTILITY POLES IN AND ADJACENT TO THE CONSTRUCTION AREA AND SHALL COMPLY WITH ALL THE REQUIREMENTS AND SPECIAL DETAILS FOR THE SUPPORT OF UTILITIES REQUIRED BY UTILITY AGENCIES. ALL COSTS FOR TEMPORARILY SUPPORTING UTILITY POLES DURING CONSTRUCTION SHALL BE INCLUDED IN OTHER ITEMS.
- IF BLASTING PERFORMED A PRE-BLAST SURVEY WILL BE REQUIRED. ANY AND ALL BLASTING SHALL CONFORM TO THE REGULATIONS SET FORTH BY THE TOWN AND SHALL BE APPROVED BY THE APPROPRIATE CITY AGENCIES AND ADJACENT UTILITY OWNERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEY AND STAKEOUT AS THEY NEED. SURVEY BASE INFORMATION AND LAYOUT WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- PERMANENT EPOXY RESIN PAVEMENT MARKINGS SHALL CONFORM WITH ARTICLE 12.10 OF THE DOT FORM 816 SPECIFICATIONS.
- ALL WORK TO CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FROM 816, DATED JULY 2010, AS REVISED.

EROSION CONTROL & SEDIMENTATION SEQUENCE

- PRIOR TO THE INSTALLATION OF ANY EROSION AND SEDIMENT CONTROL MEASURES, THE OWNER, THE ENGINEER, THE TOWN WETLAND AGENT AND CONTRACTOR SHALL MEET ON THE SITE.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED TO BE NECESSARY BY THE OWNER'S REPRESENTATIVE, OR THE TOWN WETLAND AGENT.
- STAKE LIMITS OF CLEARING THE SEDIMENT AND EROSION CONTROL MEASURES, PRIOR TO SITE DISTURBANCE. CONSTRUCTION SHALL NOT BEGIN UNTIL SUCH TIME AS THE ENGINEER HAS REVIEWED AND APPROVED THE INSTALLATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES.
- CONTRACTOR TO INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST WEEKLY AND AFTER EVERY STORM EVENT AND REPAIR AND MAINTAIN AS NECESSARY.
- CLEARING AND GRUBBING OF THE AREA TO BE GRADED; TOPSOIL TO BE REMOVED AND STOCKPILED IN AN AREA AS SHOWN ON THE PLANS AS A CONSTRUCTION STAGING AREA, & SURROUNDED WITH SILT FENCE.
- STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. ANY TRENCH DEWATERING WILL BE DONE IN ACCORDANCE WITH THE DETAIL PROVIDED AND THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- INSTALL CRUSHED STONE SURFACE.
- TOPSOIL SHALL BE RE-APPLIED TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED.
- SEEDING SHOULD TAKE PLACE BETWEEN APRIL 1 AND JUNE 1 OR AUGUST 15 AND OCTOBER 1.
- THE FOLLOWING SEEDING MIXTURES SHALL BE PROVIDED ON ALL DISTURBED AREAS:

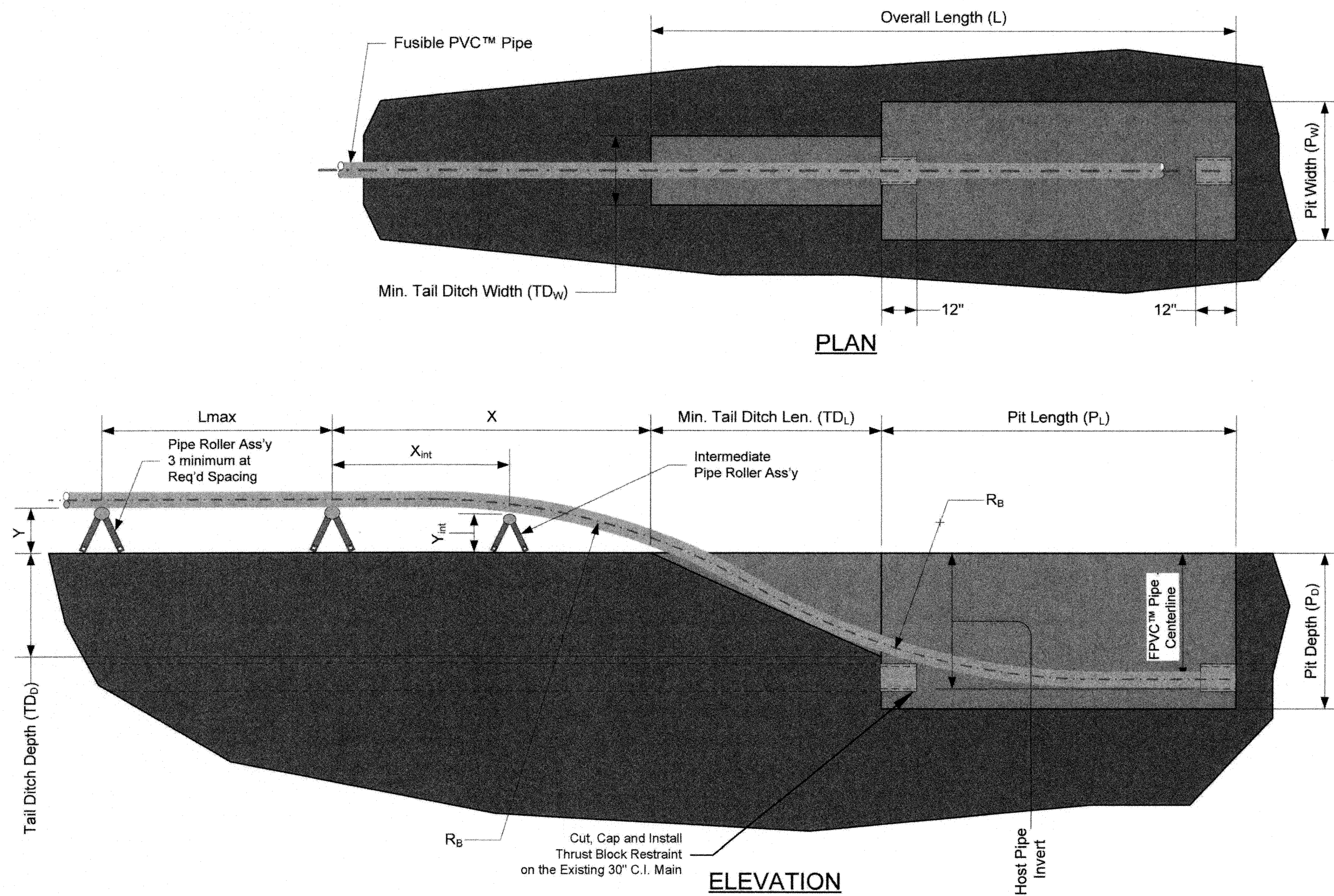
KENTUCKY BLUE GRASS	100 LB's/AC
CREeping RED FESCUE	100 LB's/AC
PERENNIAL RYEGRASS	25 LB's/AC
- CLEAN OUT NEW & EXIST. CATCH BASINS & OUTLETS.
- UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- REMOVE TEMPORARY E&S UPON VEGETATIVE STABILIZATION.

DEWATERING PLAN

IF DEWATERING IS NECESSARY DURING CONSTRUCTION, A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS FOLLOWS:

- THE PUMP INLET WILL BE WRAPPED IN FILTER FABRIC AND PLACED IN CRUSHED STONE WITHIN THE TRENCH.
- THE PUMP OUTLET WILL DISCHARGE TO THE DEWATERING ENCLOSURE PER THE DETAIL FOR DEWATERING SETTLING BASIN.
- THE DISCHARGE FROM THE DEWATERING ENCLOSURE WILL BE MONITORED AND ADDITIONAL MEASURES EMPLOYED IF NECESSARY.

Slipline Installation - Pipe Supported on Rollers

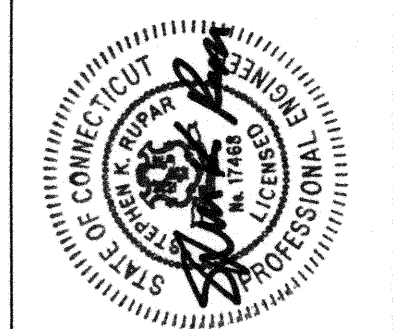


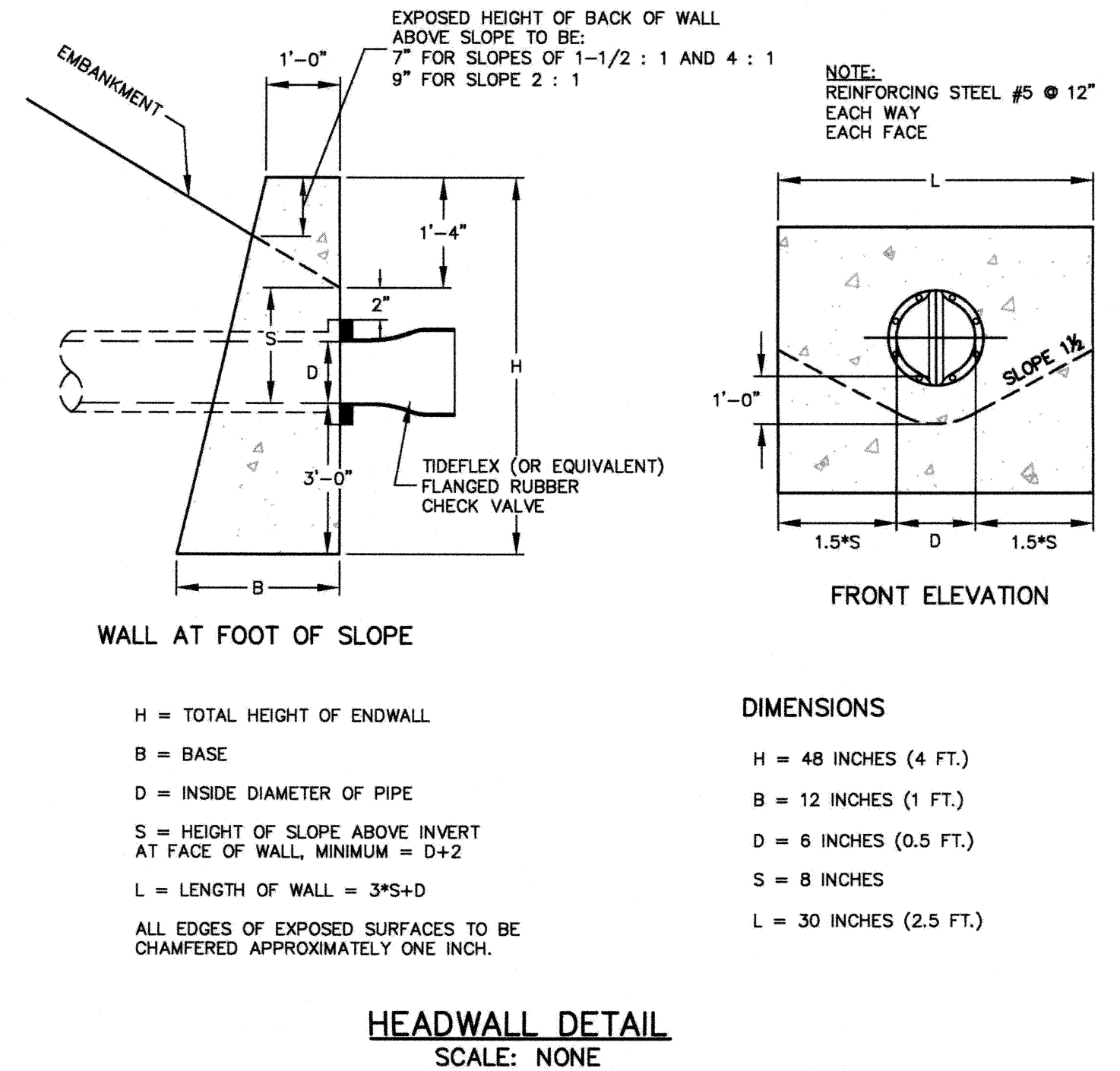
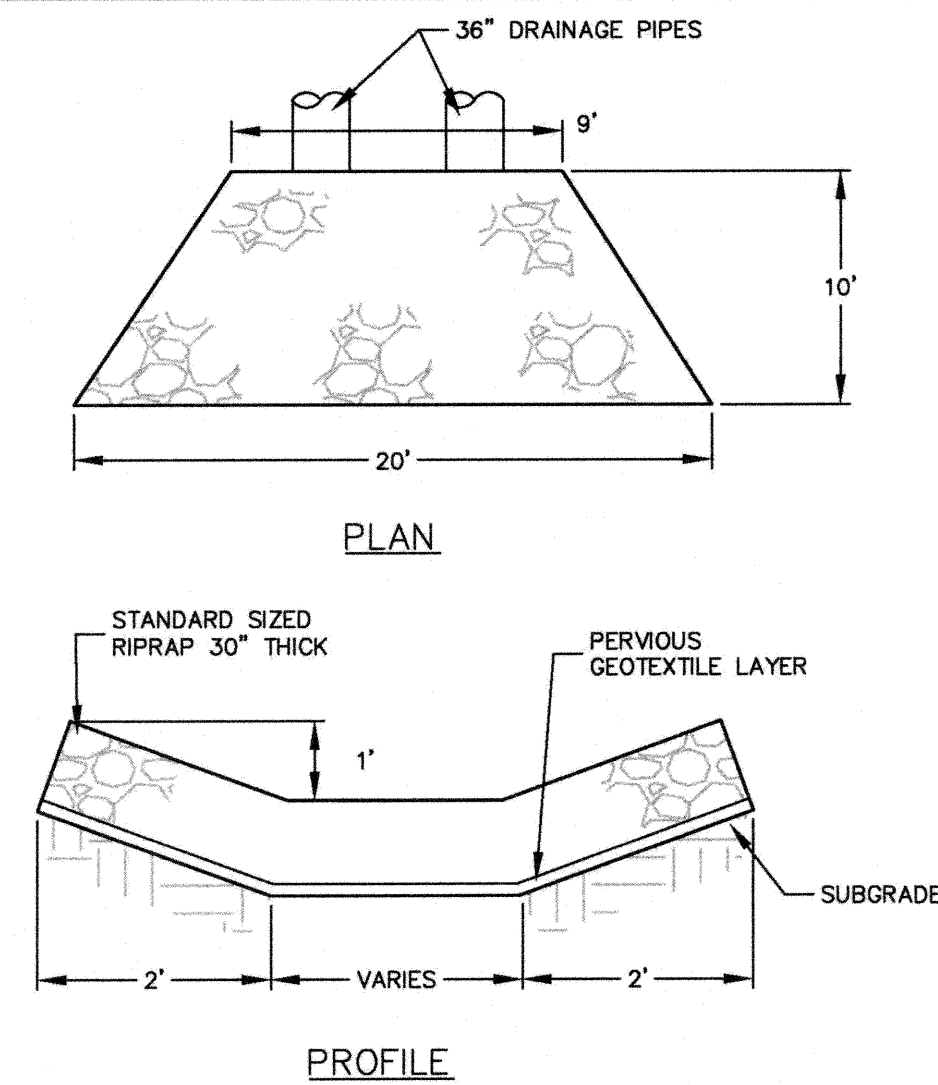
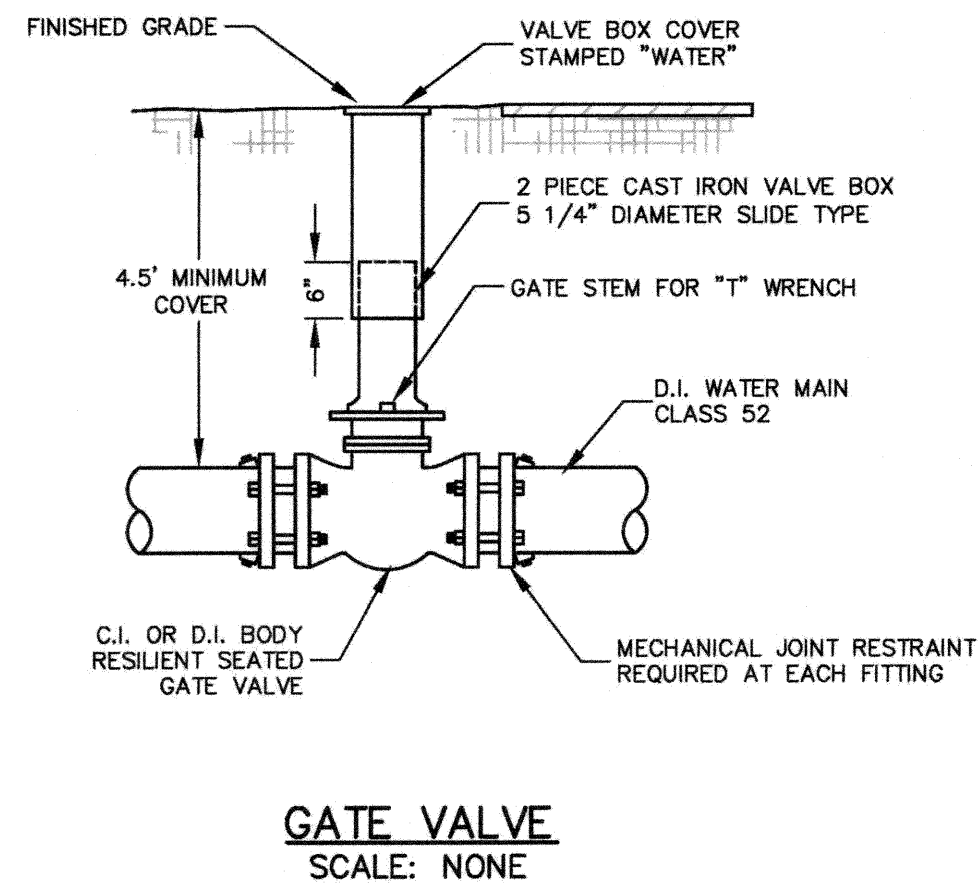
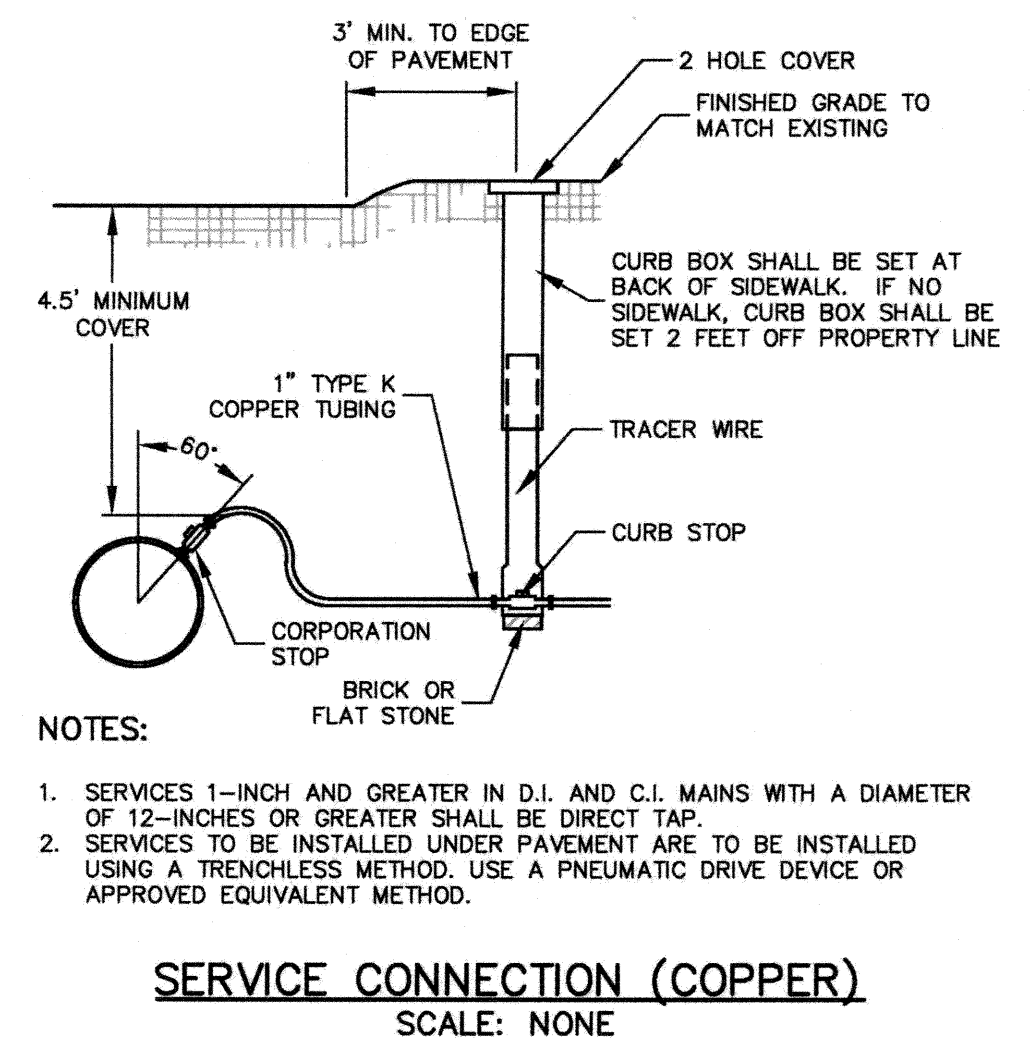
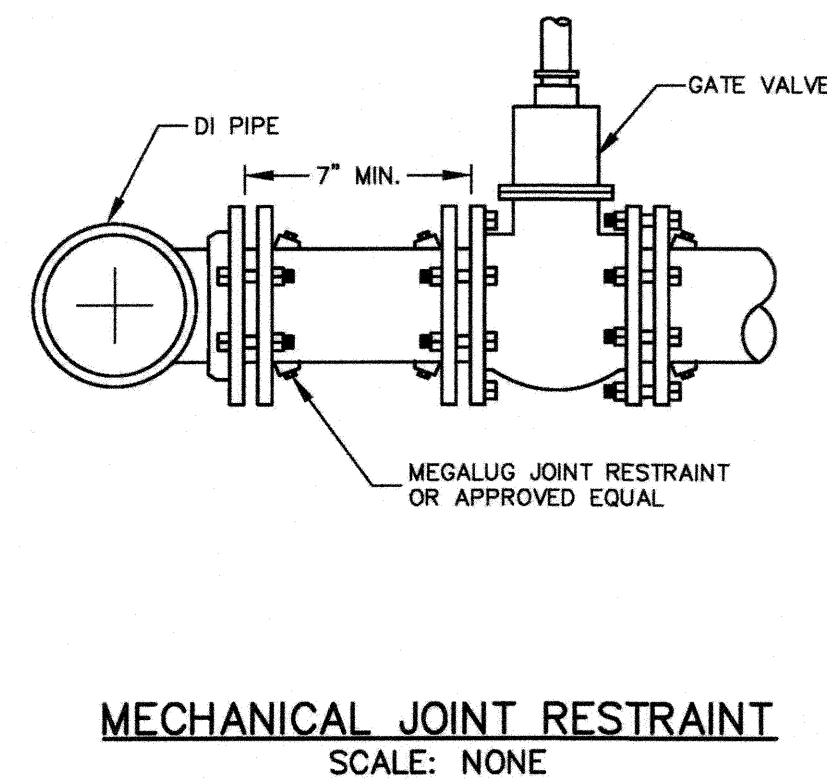
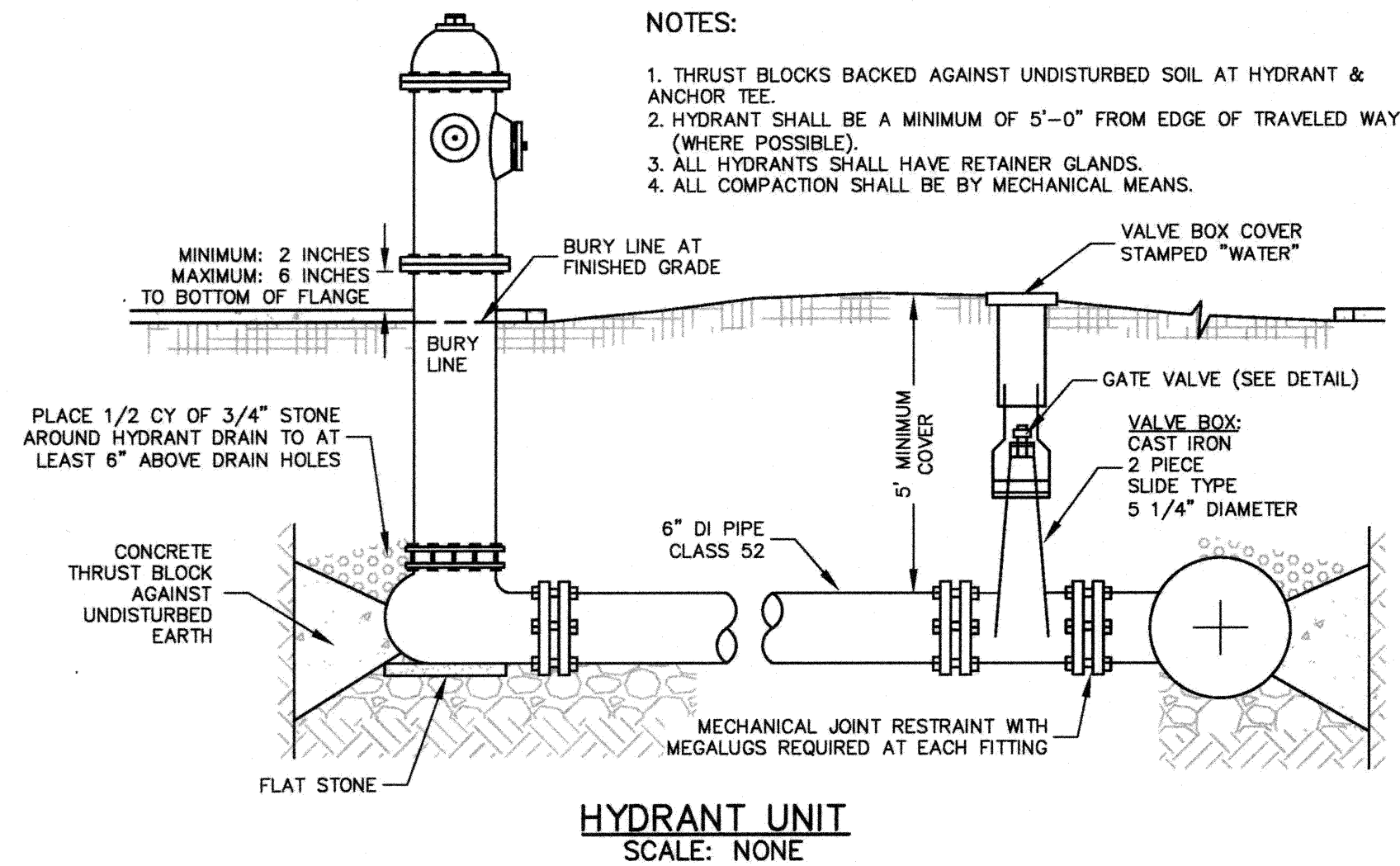
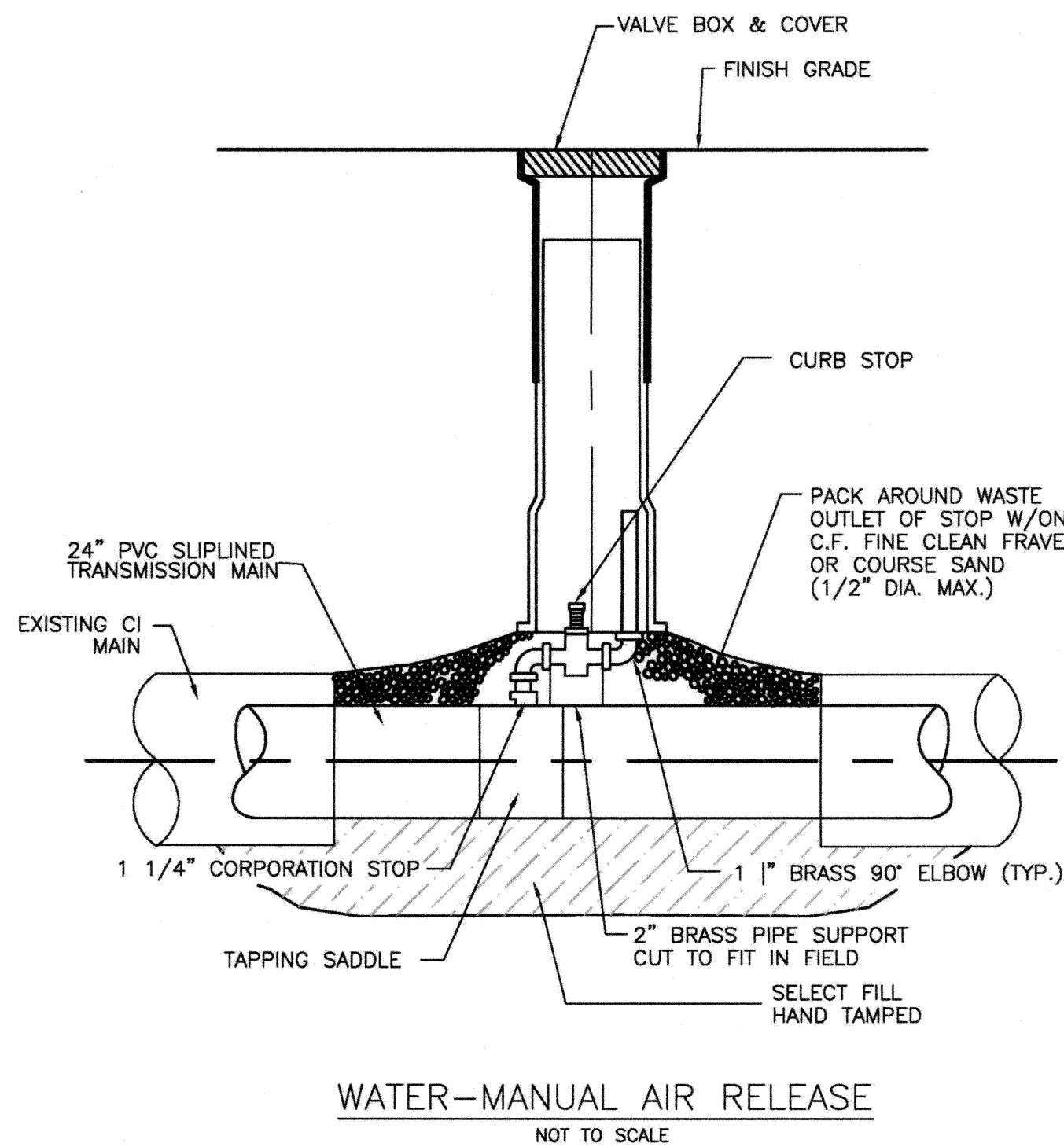
Disclaimer:

The calculations for the pit sizing shown are based on minimum requirements of the pipe product being selected above and do not take into consideration any soil bearing conditions, access requirements, required shoring, or project specific information, all of which should be considered and adjusted as necessary for each project.

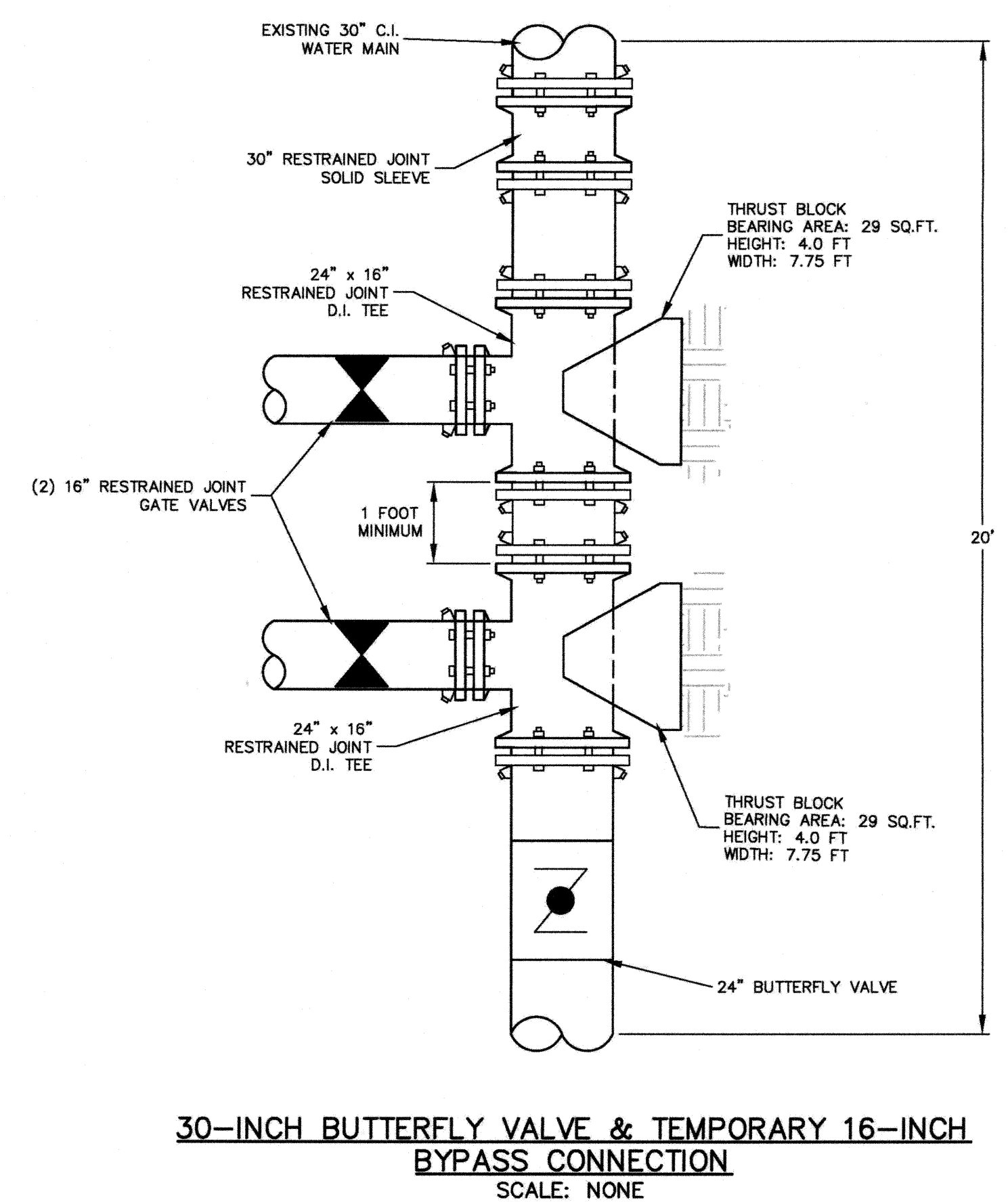
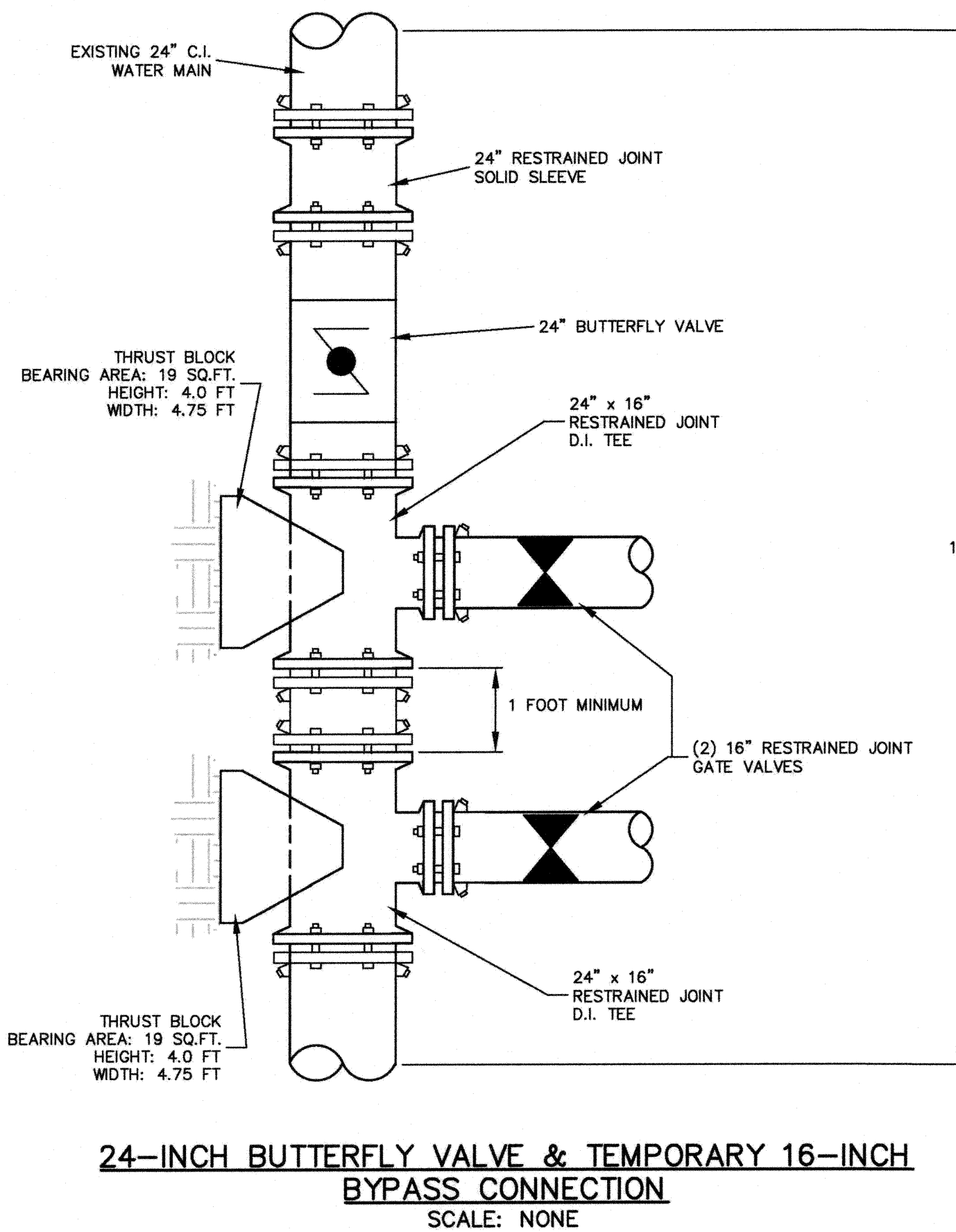
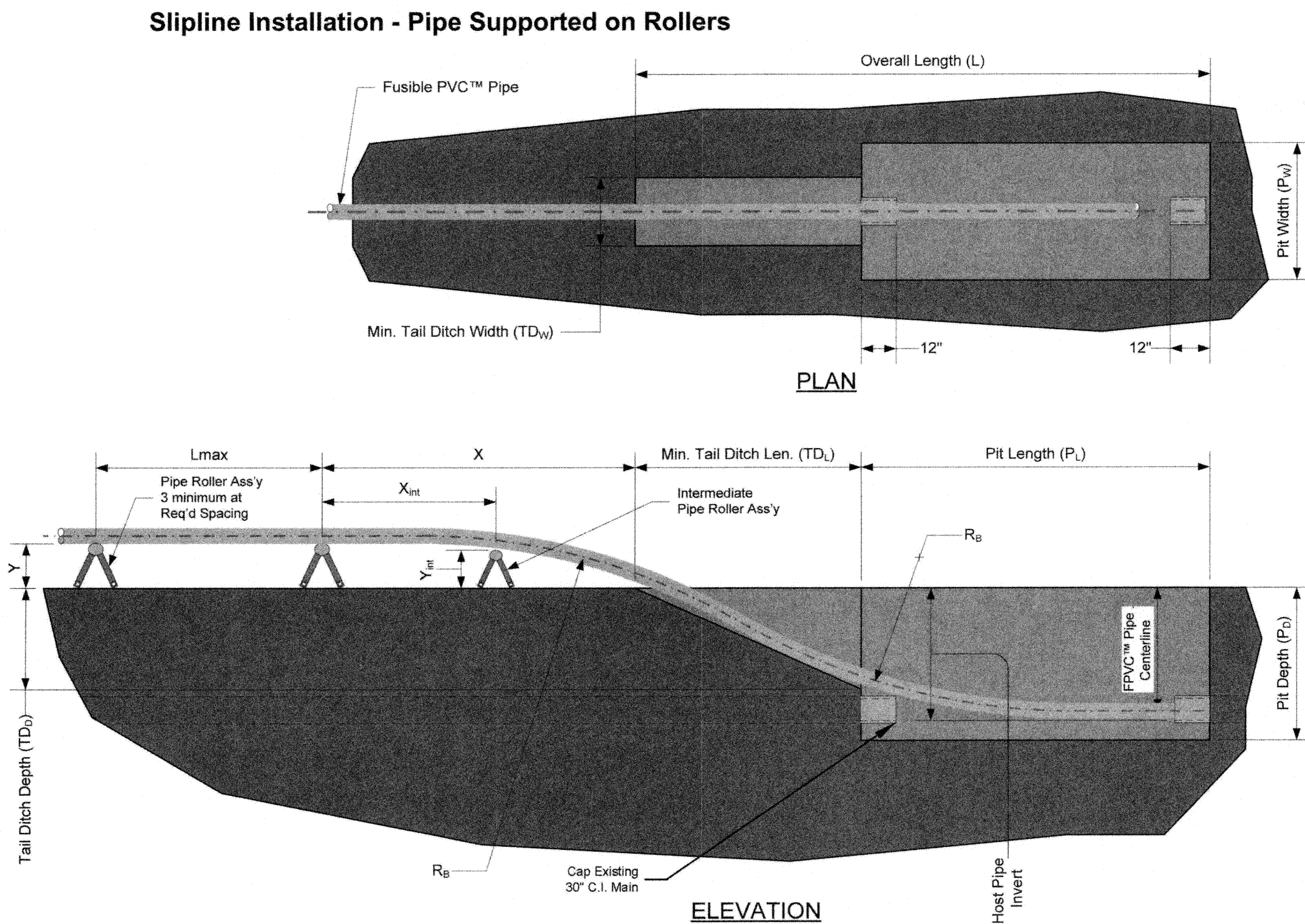
SLIPLINING ACCESS
TRENCH - A
SCALE: NONE

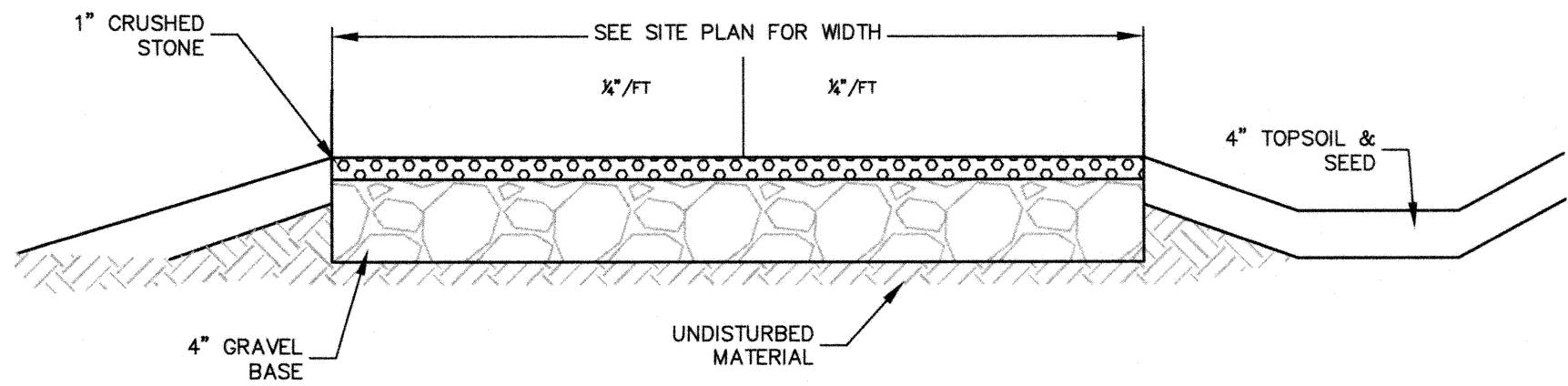
Rev.	Date	Description
3	5/11/14	FINAL CONTRACT PLANS
2	2/5/14	DPH & LEBANON REVIEW
1	8/9/13	95% Drawings





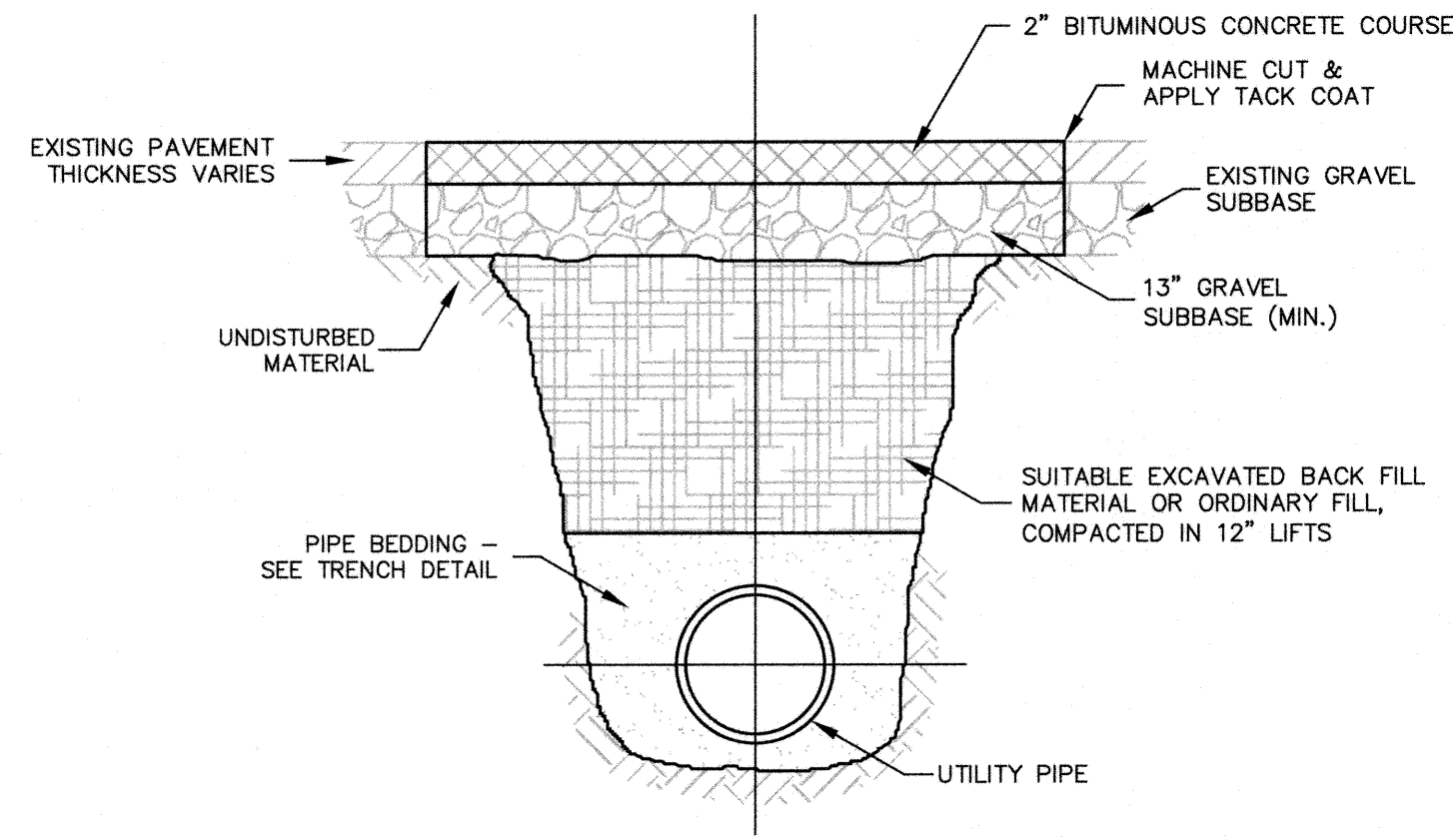
Pipe Type	DIPS
Nom. Dia.	24.00 in
Pipe OD	25.80 in
Bend Radius (R _B)	538.00 ft
Roller Height (Y ₃)	24.00 in
Grade to Host Pipe Invert	6.00 ft
Grade to FPVC™ Centerline	4.93 ft
Host Pipe OD	32.00 in
Host Pipe ID	30.00 in
Host Pipe Wall	1.00 in
Overall Length (L)	70.00 ft
Min. Tail Ditch Width (TD _w)	36.00 in
Min. Tail Ditch Length (TD _L)	31.00 ft
Tail Ditch Depth (TD _D)	3.23 ft
Pit Width (P _w)	72.00 in
Pit Length (P _L)	39.00 ft
Pit Depth (P _D)	7.00 ft
L _{max}	48.00 ft
Distance - X	46.00 ft
Distance - X _{int}	23.00 ft
Distance - Y _{int}	18.00 in



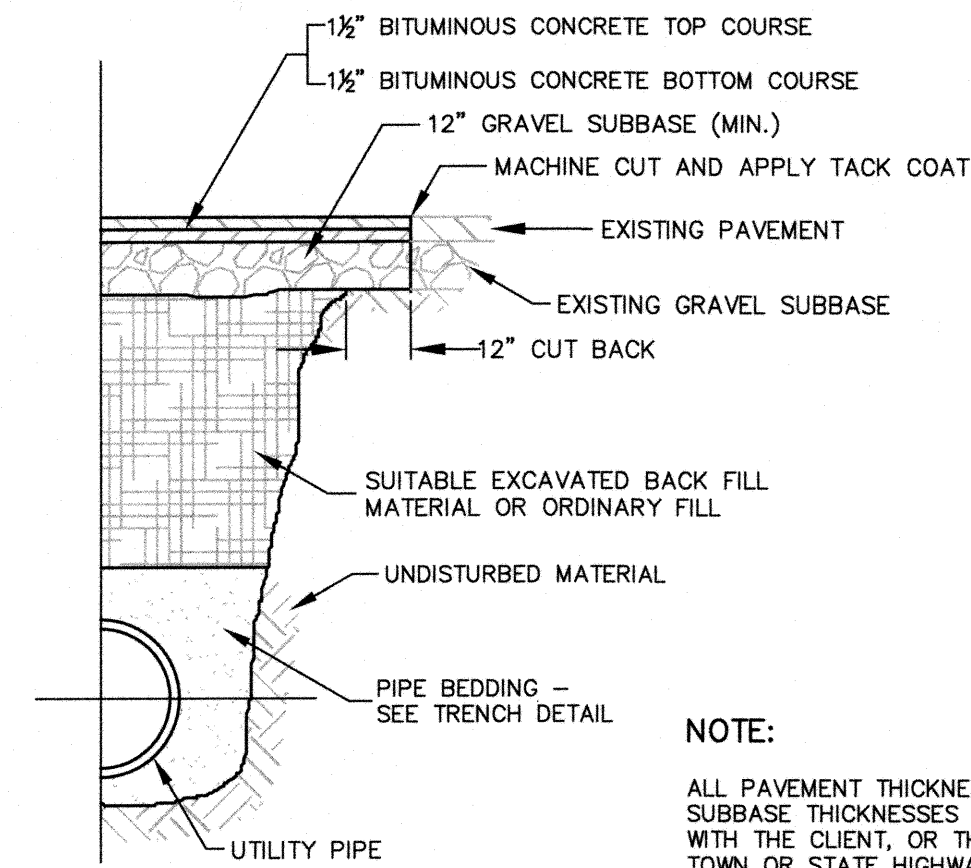


NOTE:
SEE DIVISION 2222 IN SPECIFICATIONS FOR
GRADATION REQUIREMENTS

GRAVEL ACCESS ROAD
SCALE: NONE

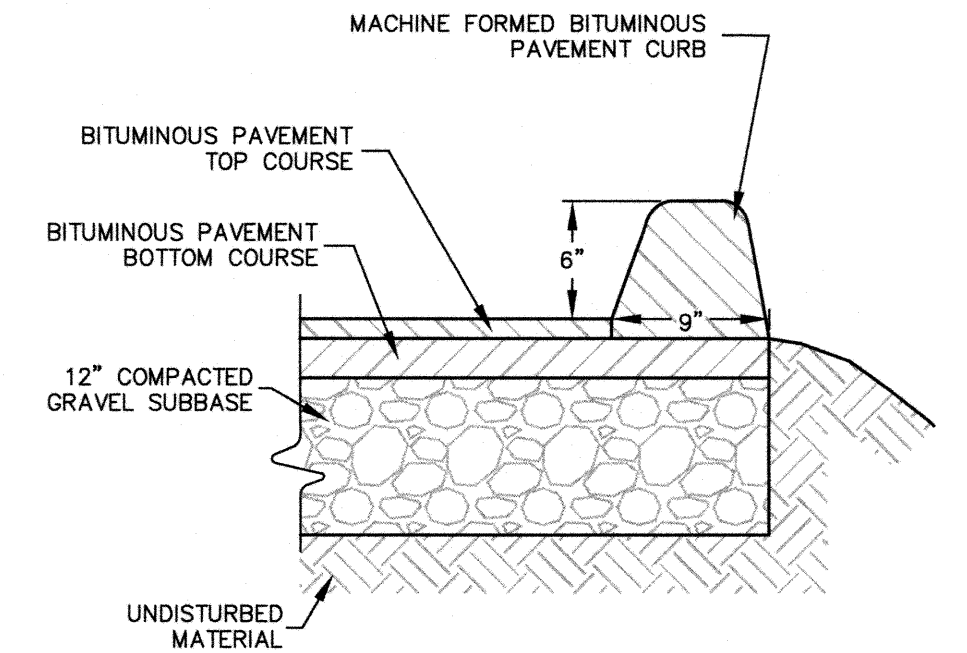


TEMPORARY TRENCH PAVEMENT
SCALE: NONE

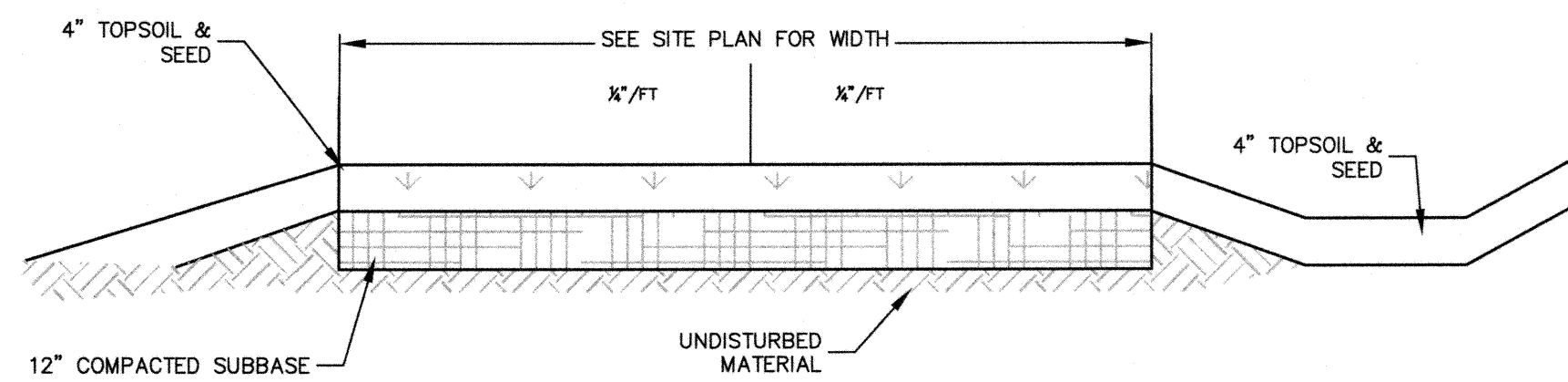


NOTE:
ALL PAVEMENT THICKNESSES AND GRAVEL
SUBBASE THICKNESSES SHALL BE VERIFIED
WITH THE CLIENT, OR THE APPROPRIATE
TOWN OR STATE HIGHWAY OFFICE

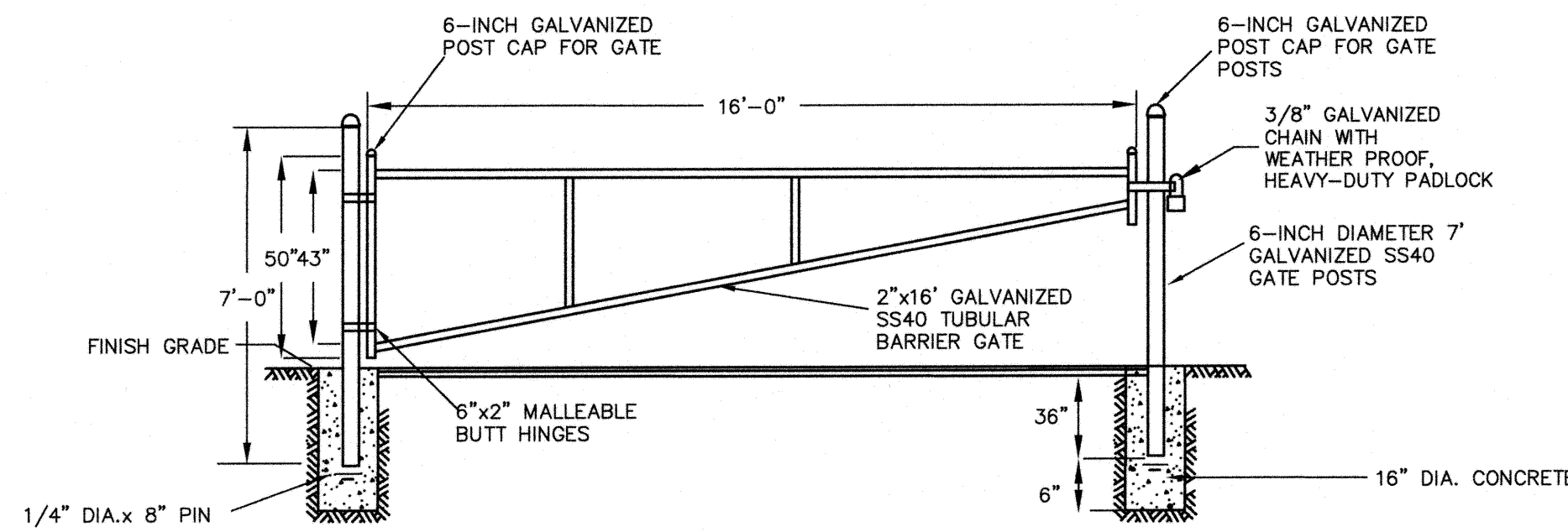
PERMANENT TRENCH PAVEMENT
SCALE: NONE



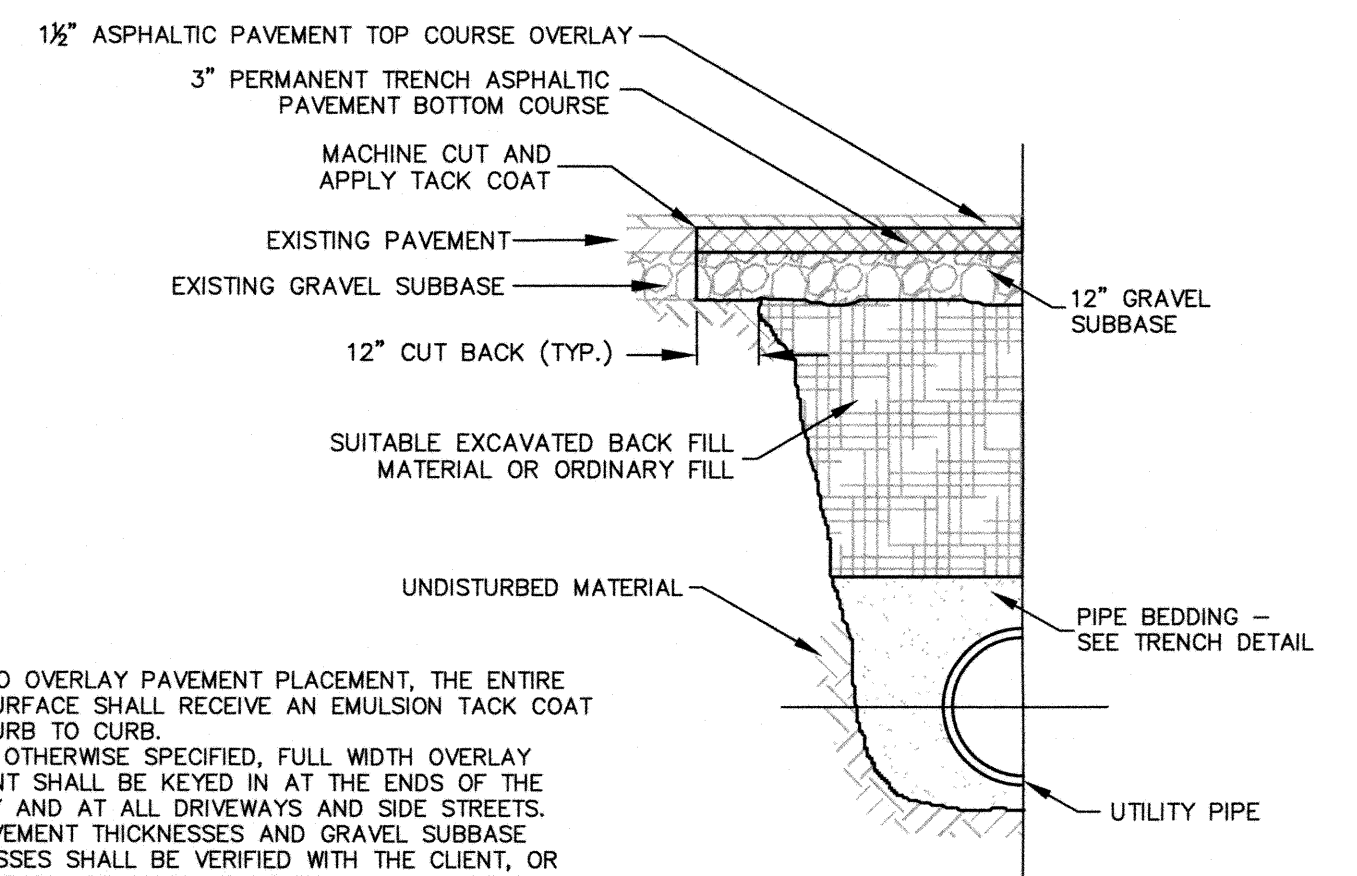
BITUMINOUS CONCRETE CURB
SCALE: NONE



GRASS ACCESS ROAD
SCALE: NONE

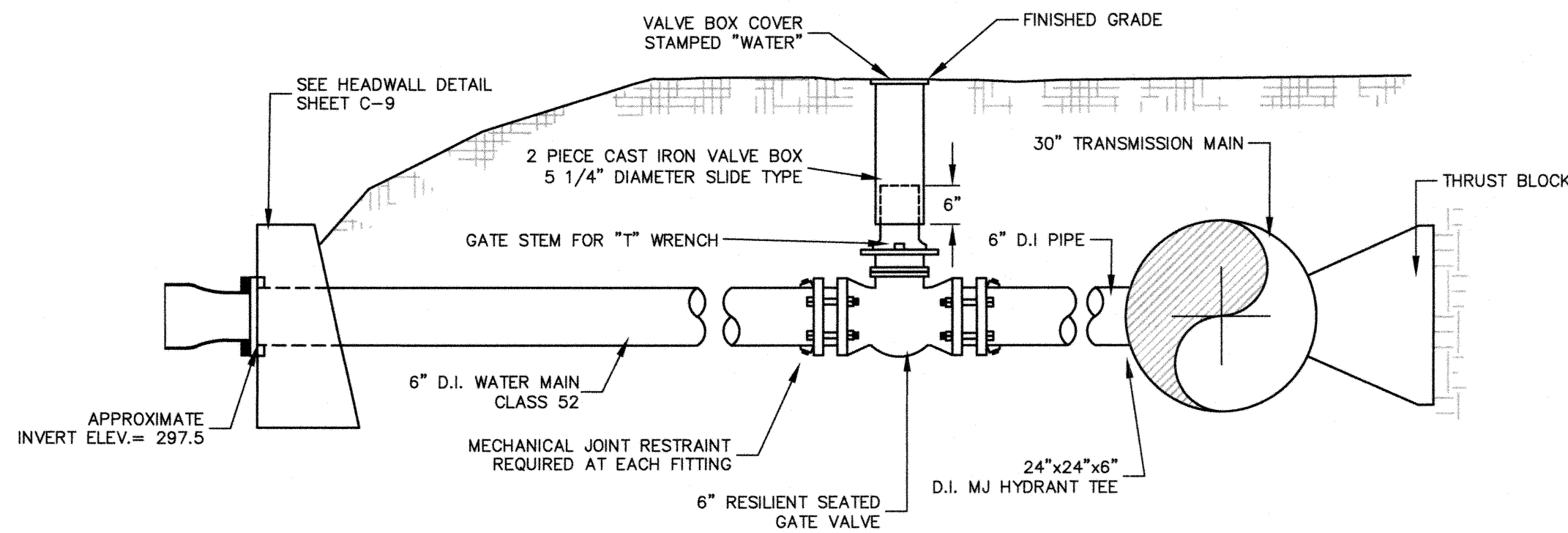


TUBULAR BARRIER GATE DETAIL
HOOVER FENCE CO. S-SERIES OR EQUAL
SCALE: NONE

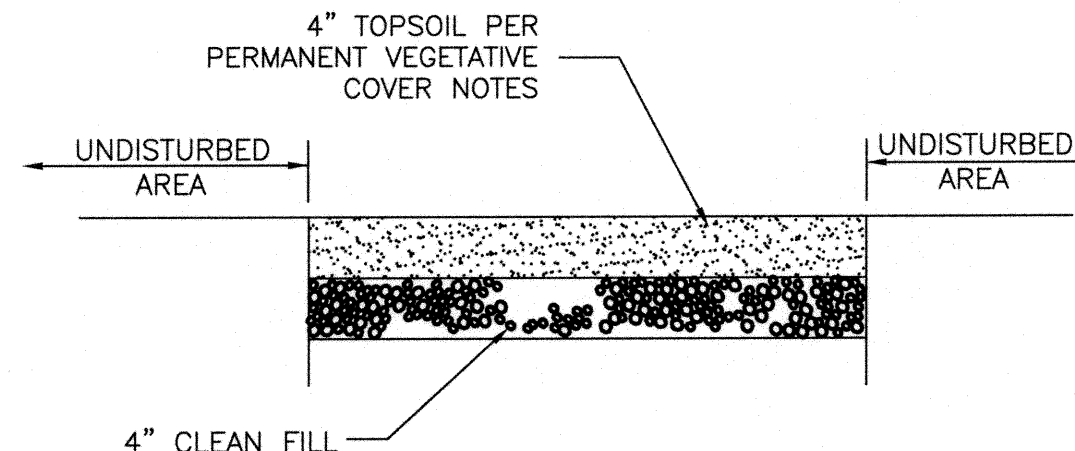


NOTES:
1. PRIOR TO OVERLAY PAVEMENT PLACEMENT, THE ENTIRE
ROAD SURFACE SHALL RECEIVE AN EMULSION TACK COAT
FROM CURB TO CURB.
2. UNLESS OTHERWISE SPECIFIED, FULL WIDTH OVERLAY
PAVEMENT SHALL BE KEYED IN AT THE ENDS OF THE
OVERLAY AND AT ALL DRIVEWAYS AND SIDE STREETS.
3. ALL PAVEMENT THICKNESSES AND GRAVEL SUBBASE
THICKNESSES SHALL BE VERIFIED WITH THE CLIENT, OR
THE APPROPRIATE TOWN OR STATE HIGHWAY OFFICE.

FULL WIDTH PAVEMENT OVERLAY
SCALE: NONE

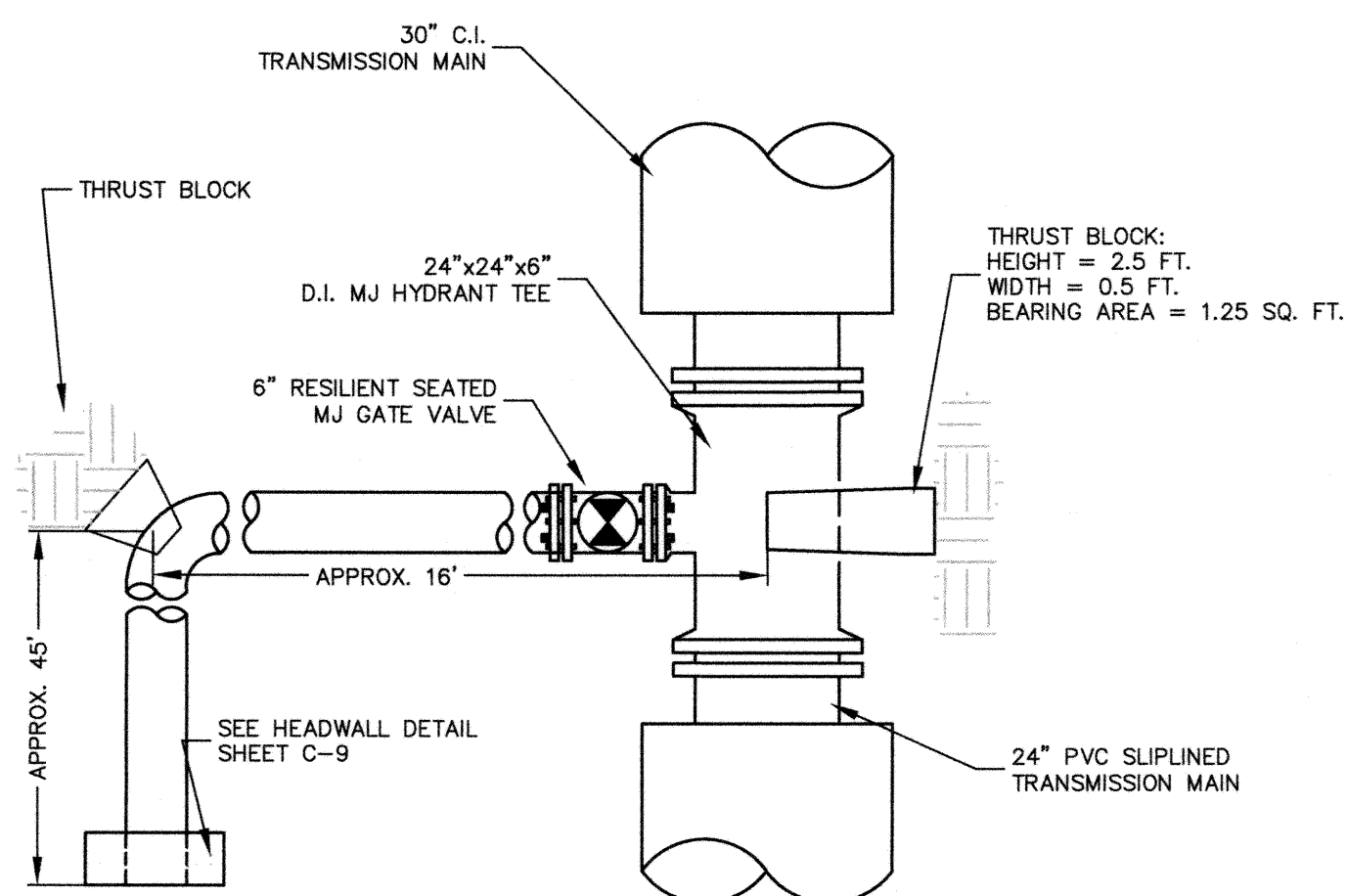


BLOW OFF PROFILE VIEW
SCALE: NONE

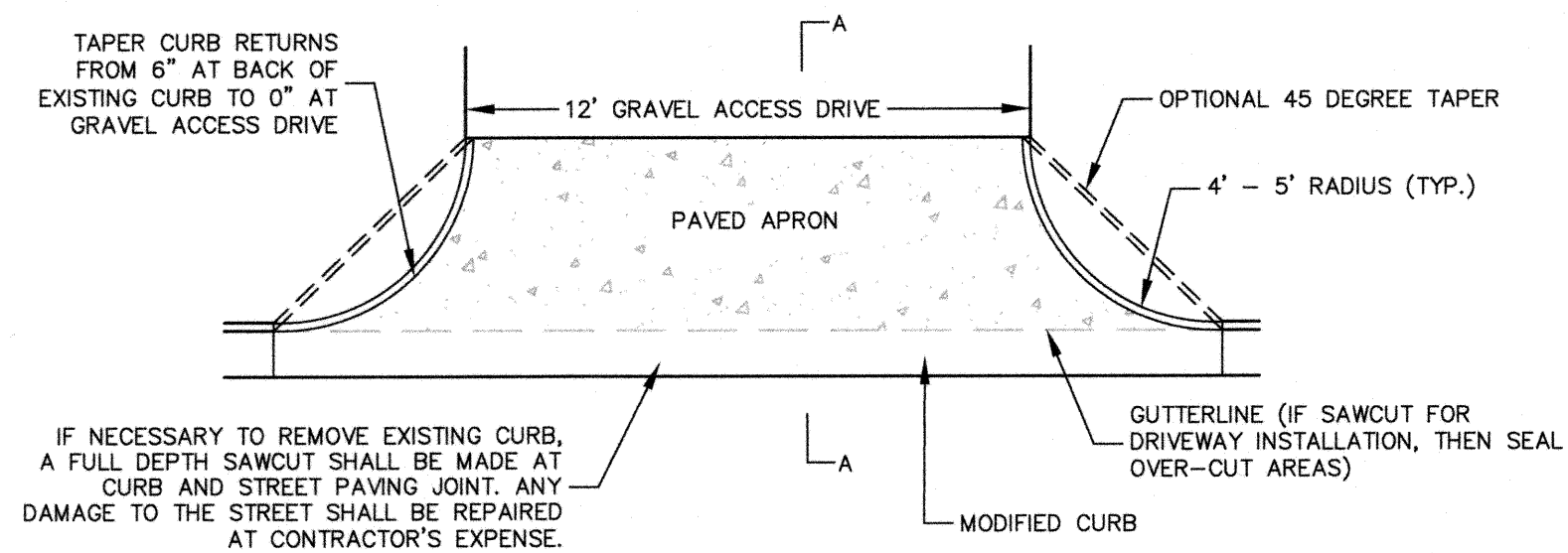


TYPICAL LOAM & SEED SECTION DETAIL
(FOR ALL DISTURBED AREAS)

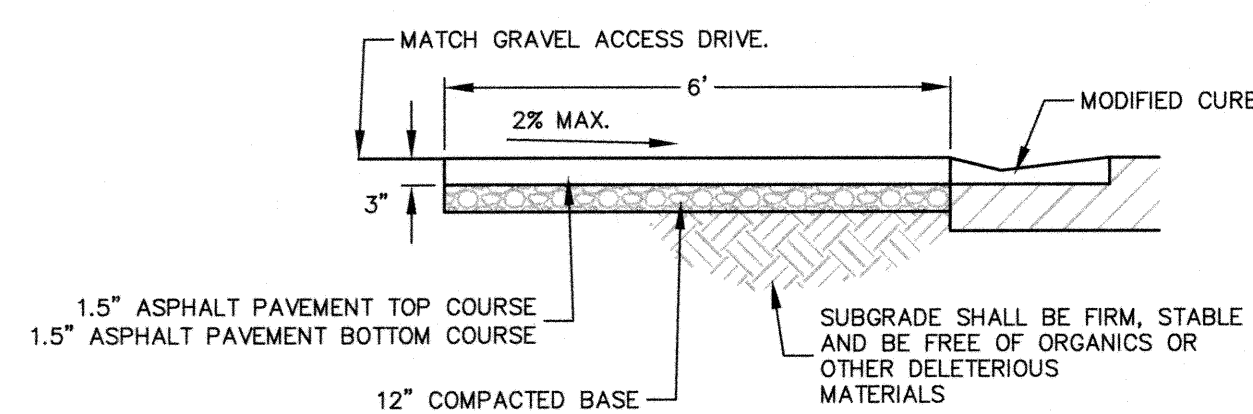
SLOPE STABILIZATION DETAILS
NOT TO SCALE



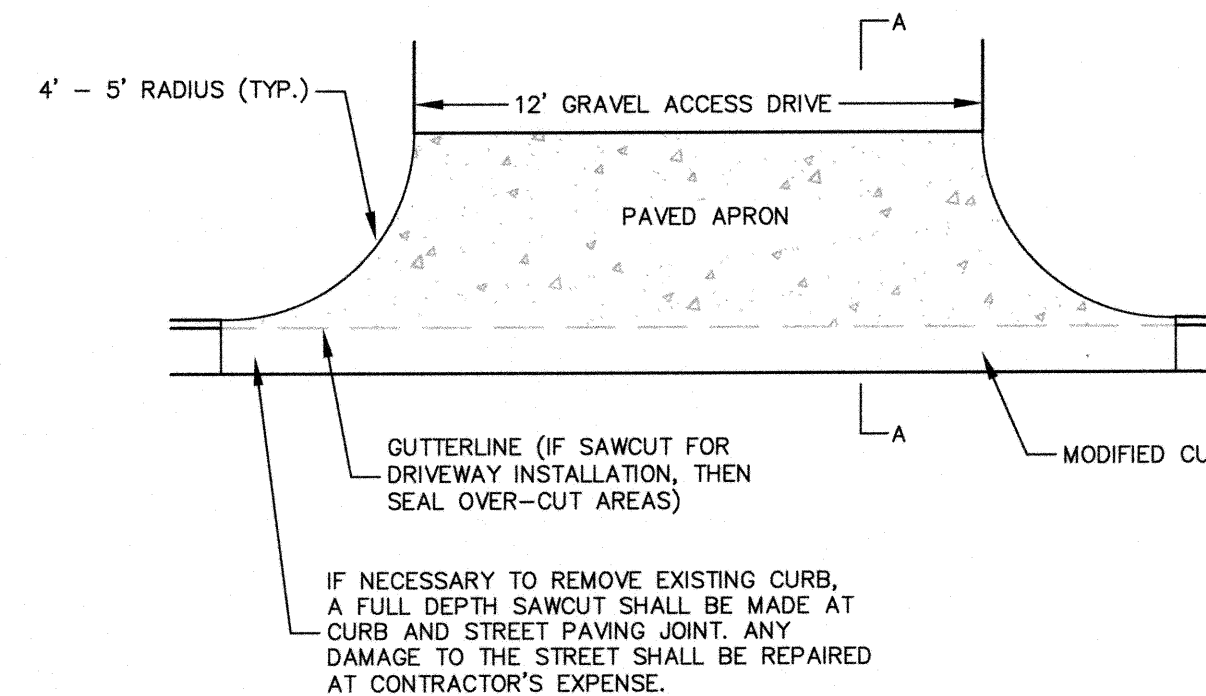
BLOW OFF PLAN VIEW
SCALE: NONE



PLAN VIEW WITH CURBING: STA 1 +49

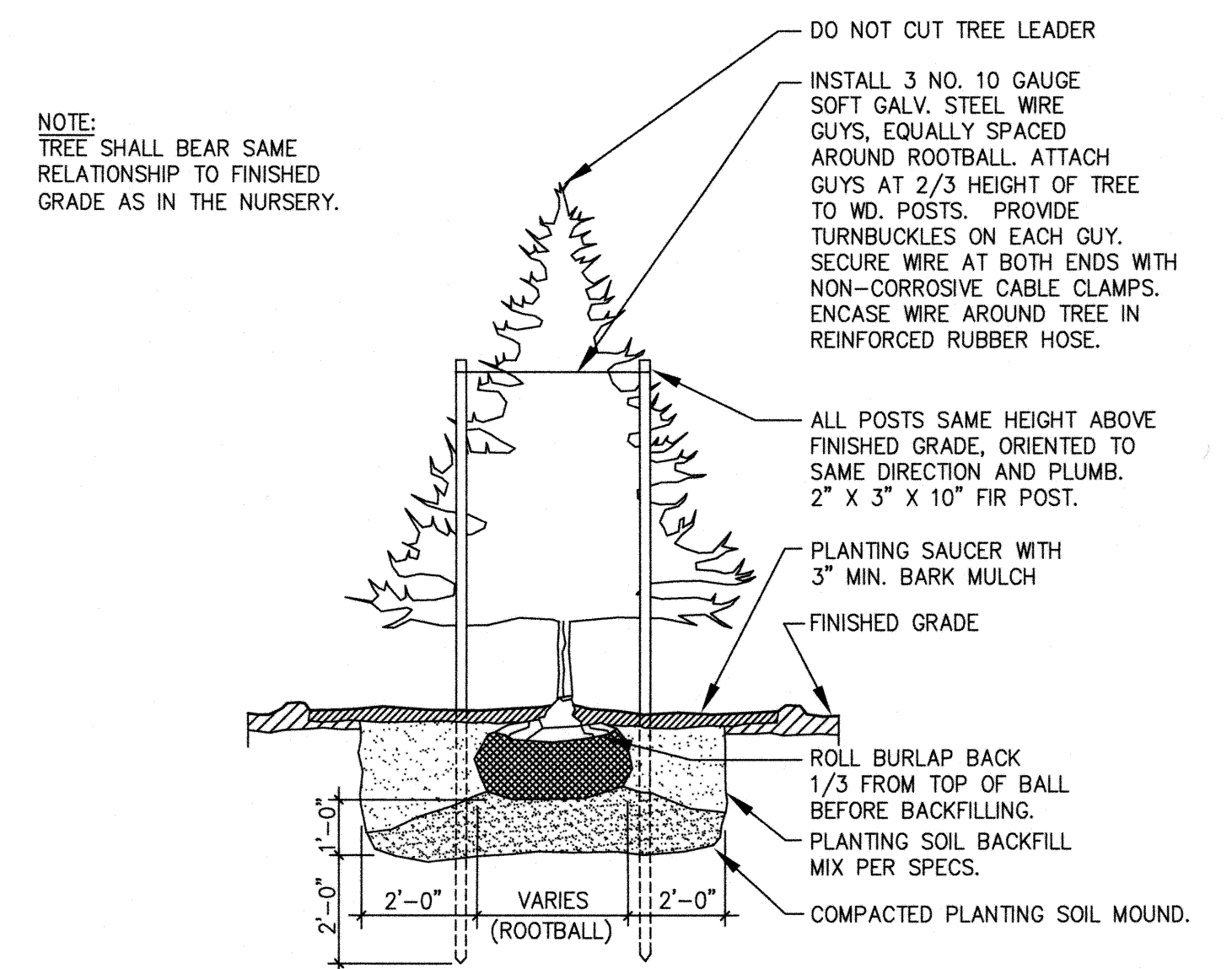


SECTION A-A



PLAN VIEW WITHOUT CURBING: STA 33 +47

PAVED APRON
SCALE: NONE



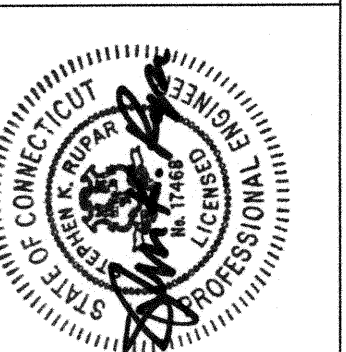
CONIFER TREE PLANTING
NTS

NORWICH PUBLIC UTILITIES
NORWICH, CONNECTICUT

DEEP RIVER WATER TREATMENT PLANT
TRANSMISSION MAIN REHABILITATION

SITE DETAILS (III)

Rev.	Date	Description
3	5/11/14	FINAL CONTRACT PLANS
2	2/5/14	DPH & LEBANON REVIEW
1	8/9/13	95% Drawings



TATA & HOWARD

T&H NO.: 2652
DATE: MARCH 2014
SCALE: NONE
SHEET: 10 OF 10

C - 10